Limited Site Investigation

North Carolina Employment Security Commission Property

Raleigh, Wake County, North Carolina

Terracon Project No. 70167318

September 22, 2016

Prepared for:
North Carolina Department of Administration
Raleigh, North Carolina

Prepared by:
Terracon Consultants, Inc.
Raleigh, North Carolina

September 22, 2016

North Carolina Department of Administration
State Property Office
1321 Mail Service Center
Raleigh, North Carolina

Attn: John Webb
E: john.webb@doa.nc.gov

Re: Limited Site Investigation
NC Employment Security Commission Property
700 Wade Avenue
Raleigh, Wake County, North Carolina
Terracon Project No. 70167318

Dear Mr. Webb:

Terracon Consultants, Inc. (Terracon) is pleased to submit this Limited Site Investigation for the above referenced site. This assessment was performed in accordance with Terracon's Proposal No. P70167318, dated June 10, 2016.

Terracon appreciates the opportunity to provide these services. If you have any questions concerning this report or need additional information, please contact us at 919-873-2211.

Sincerely,
Terracon

Deanna Metivier
Field Geologist

Casey M. Portela
Staff Geologist

Michael T. Jordan, PG
Senior Project Geologist

Attachments

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LIMITED SITE INVESTIGATION
NORTH CAROLINA EMPLOYMENT SECURITY COMMISSION PROPERTY
700 WADE AVENUE
RALEIGH, WAKE COUNTY, NORTH CAROLINA
Terracon Project No. 70167318
September 22, 2016

1.0 INTRODUCTION

1.1 Project Information

The site consists of a 15.84-acre parcel located at 700 Wade Avenue in Raleigh, Wake County, North Carolina (Wake County Parcel PIN 1704253378). The site is improved with an approximately 300,000-square foot professional office building and approximately 12,000-square foot maintenance building. An approximate east-west oriented intermittent stream that drains into Pigeon Branch Creek is located on-site near the northern site boundary. Portions of the stream are culverted. The site is currently occupied by the State of North Carolina's Employment Security Commission (NC ESC). The location of the site and site layout are shown on **Exhibits 1** and **2.**

Terracon completed a Phase I Environmental Site Assessment (ESA) dated April 15, 2016 (Terracon Project No. 70167125). Three on-site recognized environmental conditions (RECs) were identified:

- An open leaking underground storage tank (LUST) Incident #26194 with petroleum impacts in soil and groundwater above regulatory standards associated with a former 280-gallon gasoline underground storage tank (UST);
- A lack of information regarding the potential historical use of chlorinated solvents in on-site printing operations since the early 1980s (i.e. degreasers, parts cleaners, and/or solvent-based inks); and
- The presence of tetrachlorethane in groundwater samples collected from monitoring well SW-1 at concentrations above the current groundwater quality standard in samples collected in 2004 and 2005. Incident files indicate that SW-1 was abandoned in 2006 for installation of an emergency generator.

Additionally, the following historical recognized environmental condition (HREC) was identified in connection with the site:

- The closed LUST Incident #23869 with a no further action (NFA) letter for five former fuel oil USTs located in the vicinity of the on-site maintenance building.

Based on a review of documents completed during Terracon's Phase I ESA, the 280-gallon gasoline UST had been utilized since the mid-1980s and was reportedly removed in 2003. Approximately eight cubic yards of soil were excavated during UST removal and a soil sample collected from beneath the UST indicated the presence of benzene, xylenes,

1,2,4-trimethylbenzene, and 1,3,5-trimethlybenzene at concentrations above their respective North Carolina Department of Environmental Quality (NCDEQ) – UST Section soil-to-groundwater maximum soil contaminant concentrations (MSCCs). Subsequently, several shallow Type II monitoring wells, a Type III monitoring well (DW-1), and a recovery well (RW-1) were installed in 2003. Additionally, six soil borings were advanced around the former UST. The extent of soil contamination was estimated to be approximately 12 feet by 20 feet and extend to a depth of 27 feet below land surface (bls) or approximately 240 cubic yards. The contaminated soil was reportedly located too close to the on-site structure to be removed safely and maintain the structural integrity of the building. The site was classified as intermediate risk by NCDEQ due to the presence of a tributary of Pigeon House Branch situated within 500 feet of the source area (EEC Inc., 2004).

This limited site investigation (LSI) was completed to evaluate the current status of soil and groundwater impacts associated with the identified on-site RECs. The scope of work is not intended to provide complete delineation or develop corrective action costs.

1.2 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either expressed or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These investigation services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-11.

1.3 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services, including file reviews, performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, not detected or not present during these assessment activities; thus, we cannot represent that the site is free of hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this investigation. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.4 Reliance

This report has been prepared for the exclusive use of North Carolina Department of Administration – State Property Office. Any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Wake County and Terracon. Any unauthorized distribution or reuse is at Wake County's sole risk. Reliance by authorized parties will be subject to the terms, conditions, and limitations stated in Terracon's Proposal No. P70167318, dated June 10, 2016. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to the client and all relying parties unless otherwise agreed in writing.

2.0 FIELD INVESTIGATION METHODS

Field activities were conducted on August 11 and August 12, 2016. Activities included boring layout, a request for public utility locating by *North Carolina 811,* private utility location, advancement of soil borings, installation of temporary groundwater monitoring wells, and sampling of soil and groundwater.

2.1 Private Utility Location

A ground penetrating radar and electromagnetic (GPR/EM) survey was conducted in the vicinity of the former UST to verify the location of the UST basin and around the building to mark utilities in boring locations. Due to interference from multiple utilities in the vicinity, the extent of the former UST basin could not located.

2.2 Soil Borings

Terracon advanced one boring for the purpose of soil sampling in the vicinity of the former UST. Soil borings could not be safely advanced in the vicinity of the former UST basin due to a high density of subsurface utilities in that area. Terracon also advanced five borings for temporary monitoring well installation around the site building. Borings were advanced via direct push technology (DPT) drilling techniques via a truck-mounted 5410 Geoprobe drill rig. The borings were completed to depths ranging from 19 to 44 feet below land surface (ft bls). Soils were collected from the borings via the hand auger bucket or Macro-Core® samplers. Soil characteristics including soil type, color, moisture, and odor were observed in the field and recorded on boring logs.

Soils encountered in the borings were generally characterized as interbedded light brown and orangish-yellow sandy clays, clays, and micaceous clayey sands. Petroleum odors were noted in boring SB-01 at 12 ft bls and deeper. The soils were screened in the field for the presence of organic vapors by placing each sample into a dedicated, re-sealable plastic bag and inserting the

tip of a photoionization detector (PID) into the headspace of the bag. Soil boring logs are included in **Appendix A**. The soil boring location is depicted on **Exhibit 3**.

Soil cuttings were containerized in a 55-gallon drum on-site pending analytical results. Non-dedicated sampling equipment was decontaminated using a Liquinox®/water wash followed by a distilled water rinse prior to use and between borings.

2.3 Soil Sampling

Two soil samples from SB-01 were selected for laboratory analysis based on PID results and depth of highest potential for impact above the water table. The two samples were collected from a boring located adjacent to the former UST basin. The soil samples were packed in laboratory-supplied sample containers. The sample containers were packed in ice and retrieved by a Con-Test Analytical Laboratory (Con-Test) courier for analysis of volatile organic compounds (VOCs) by EPA Method 8260 and volatile petroleum hydrocarbons (VPH) according to the Massachusetts Department of Environmental Protection (MADEP).

2.4 Temporary Monitoring Well Installation

Temporary monitoring wells TW-01 through TW-05 were installed on August 11, 2016. The monitoring wells were installed along the northern and eastern edges of the buildings to evaluate potential impacts from on-site printing operations. Terracon oversaw the construction of the temporary groundwater monitoring wells within these boreholes. The wells were constructed as follows:

- Installation of a 10-foot section of 1-inch diameter, 0.010-inch machine slotted PVC well screen;
- Installation of a 1-inch diameter, threaded, flush-joint PVC riser pipe to the ground surface; and
- Placement of sand in the borehole annulus to two feet above the screened interval followed by a layer of hydrated bentonite to the surface to seal the well.

Well construction details are included in **Table 1**. Drilling equipment was thoroughly decontaminated prior to use and between each temporary monitoring well.

2.5 Temporary Monitoring Well Sampling

Temporary wells TW-01 through TW-05 were sampled on August 11, 2016. Prior to sampling, depth to groundwater measurements were collected from each well. Depth to groundwater measurements ranged from approximately 22 to 40 ft bls (**Table 1**).

Each temporary monitoring well was purged with a peristaltic pump using low flow sampling techniques (i.e., <200 milliliters per minute) prior to sampling. A groundwater sample was collected directly into laboratory supplied containers at low flow sampling rates. The following parameters were measured during purging: pH, temperature, oxidation reduction potential (ORP), dissolved oxygen (DO), and conductivity. The groundwater samples were packed in ice and retrieved by a Con-Test courier for analysis of VOCs by EPA Method 8260.

Sampling equipment was thoroughly decontaminated with a Liquinox®/distilled water wash prior to sample collection, and between sampling. After completion of sampling activities, the temporary monitoring wells were abandoned on August 11, 2016. The temporary well casings were removed from the ground and the borings were filled with hydrated bentonite chips to the surface.

2.6 Monitoring Well Sampling

Groundwater samples were collected from 6 existing groundwater monitoring wells (DW-1, RW-1 SW-2, SW-A, SW-B, and SW-C). Terracon was not able to locate construction information for three of the monitoring wells and the wells did not have well tags; therefore, they were assigned well identifications “SW-A”, “SW-B”, and “SW-C”. RW-1 is a four-inch diameter recovery well. Monitoring well MW-1, reportedly installed in the former UST basin, was not located. Depth to water was gauged in the monitoring wells prior to purging. Depth to groundwater measurements were converted to water level elevations using top of casing survey data for the permanent monitoring and recovery wells. Construction details and elevation data for the monitoring wells is included on **Table 1**.

Monitoring wells were purged with a peristaltic pump or submersible pump using low flow sampling techniques (i.e., <200 milliliters per minute) prior to sampling. Field parameters (temperature, pH, specific conductance, DO, and ORP) were measured to ensure collection of a sample representative of formation water. Following stabilization of pH and conductivity, groundwater sample was collected from each monitoring well directly into laboratory supplied containers at low flow sampling rates. Samples from permanent monitoring wells were analyzed for VOCs via EPA Method 8260 and MADEP VPH.

3.0 FIELD INVESTIGATION RESULTS

3.1 Soil Analytical Results

Results were compared to the soil to groundwater MSCCs, residential MSCCs, and industrial/commercial MSCCs.

- Seven VOC constituents were detected at concentrations above the laboratory reporting limits in the soil sample collected from boring SB-01 at a depth of 10 to 12 ft bls. The seven

constituents were detected at concentrations above their respective soil-to-groundwater MSCCs and below residential and industrial/commercial MSCCs.

- Twelve VOC constituents were detected at concentrations above the laboratory reporting limits in soil sample collected from boring SB-01 at a depth of 16 to 18 ft bls. Twelve of the constituents were detected at concentrations above their respective soil-to-groundwater MSCCs and below residential and industrial/commercial MSCCs.
- One petroleum carbon fraction class (C9-C18 aromatics) was detected in SB-01 (10-12) and SB-01 (16-18) at concentrations above its respective soil-to-groundwater and residential MSCCs.

A summary of the constituents detected in soils is included on **Table 2**. A copy of the laboratory report is provided in **Appendix B**.

3.2 Groundwater Analytical Results

Groundwater sample results were compared to the NCAC 2L Groundwater Quality Standards (2L Standards) and Division of Waste Management (DWM) Vapor Intrusion Residential and Non-Residential Groundwater Screening Levels (VI-GWSLs). Based on groundwater elevation in permanent wells, groundwater flow is estimated toward the north.

- Six VOC constituents (bromodichloromethane, ethylbenzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes) and one petroleum fraction class (C5-C8 aliphatics) were detected at concentrations above their respective 2L standards in recovery well RW-1 or monitoring well SW-2.
- Four VOC constituents (ethylbenzene, naphthalene, 1,2,4-trimethylbenzene, and total xylenes) were detected at concentrations above their respective residential and non-residential VI-GWSLs in recovery well RW-1. Seven detected constituents do not have VI-GWSLs.
- Tetrachloroethene was detected at estimated concentrations above the method detection limit and below the laboratory reporting limit in temporary monitoring wells TW-02 and TW-04. The concentration in TW-04 is above the 2L standard; however, since the concentration is below the reporting limit it therefore does not constitute a violation of the 2L standard.
- VOCs were not detected above method detection limits in DW-1, SW-A, SW-B, SW-C, TW-01, and TW-05.

A summary of the constituents detected in groundwater is included as **Table 3**.

4.0 SUMMARY AND CONCLUSIONS

- Soils encountered in the borings were generally characterized as interbedded light brown and orangish-yellow sandy clays, clays, and micaceous clayey sands. DPT refusal was not encountered.
- Groundwater was encountered at depths ranging from approximately 22 to 40 ft bls.
- Laboratory analytical data indicates the presence of petroleum compounds above soil-to-groundwater and residential standards in soil adjacent to the former UST location. With the existing building in-place, it would be difficult to safely excavate the impacted soil.
- Compounds detected are generally consistent with those expected from a release of gasoline and were detected above 2L Standards in a groundwater sample collected in the vicinity of the suspected former UST basin.
- The open LUST incident #26194 could likely be closed with a groundwater use restriction and residential use restriction recorded on the deed if the petroleum-impacted soil remain in-place. If redevelopment plans for the site include demolition of the building, the impacted soil could be excavated and the incident could be closed without a residential use restriction, although a groundwater use restriction would still be required due to groundwater concentrations above 2L standards. Closure would be dependent upon NCDEQ's concurrence that groundwater impacts do not pose a concern to the adjacent stream.
- Due to depths to groundwater greater than approximately 20 feet below the building, which exceeds the EPA's vertical screening distance of 6 feet for dissolved phase plumes (EPA, 2015), and the lack of precluding factors, investigation for petroleum vapor intrusion is not warranted at this time.
- Tetrachloroethane, the chlorinated solvent detected in groundwater on-site in 2004 and 2005, was not detected during this assessment; however, PCE, a chlorinated solvent and non-petroleum related compound, was detected in TW-02 at a concentration below its 2L standard and in TW-04 at an estimated concentration above its 2L standard. It is not considered a violation to the 2L standard because the concentration was estimated (i.e. contained a "J"-flag data qualifier).

5.0 RECOMMENDATIONS

Based on the results of this LSI, Terracon has the following recommendation for the site.

- The property owner should submit the 2L standard exceedances for Tetrachloroethane and PCE to NCDEQ's Inactive Hazardous Sites Branch (IHSB).

- Due to the current soil and groundwater concentrations around the former gasoline UST (Incident #26194), the site is not currently eligible for an unrestricted use closure. The site can likely be closed under its current conditions with a residential use restriction and a groundwater use restriction. If site conditions change to allow excavation of impacted soil in the vicinity of the UST (i.e. the building is demolished), the site can likely be closed to allow

for future residential use following excavation activities, although a groundwater use restriction on the deed would still be required. Closure would be dependent upon NCDEQ's concurrence that groundwater impacts do not pose a concern to the adjacent stream.

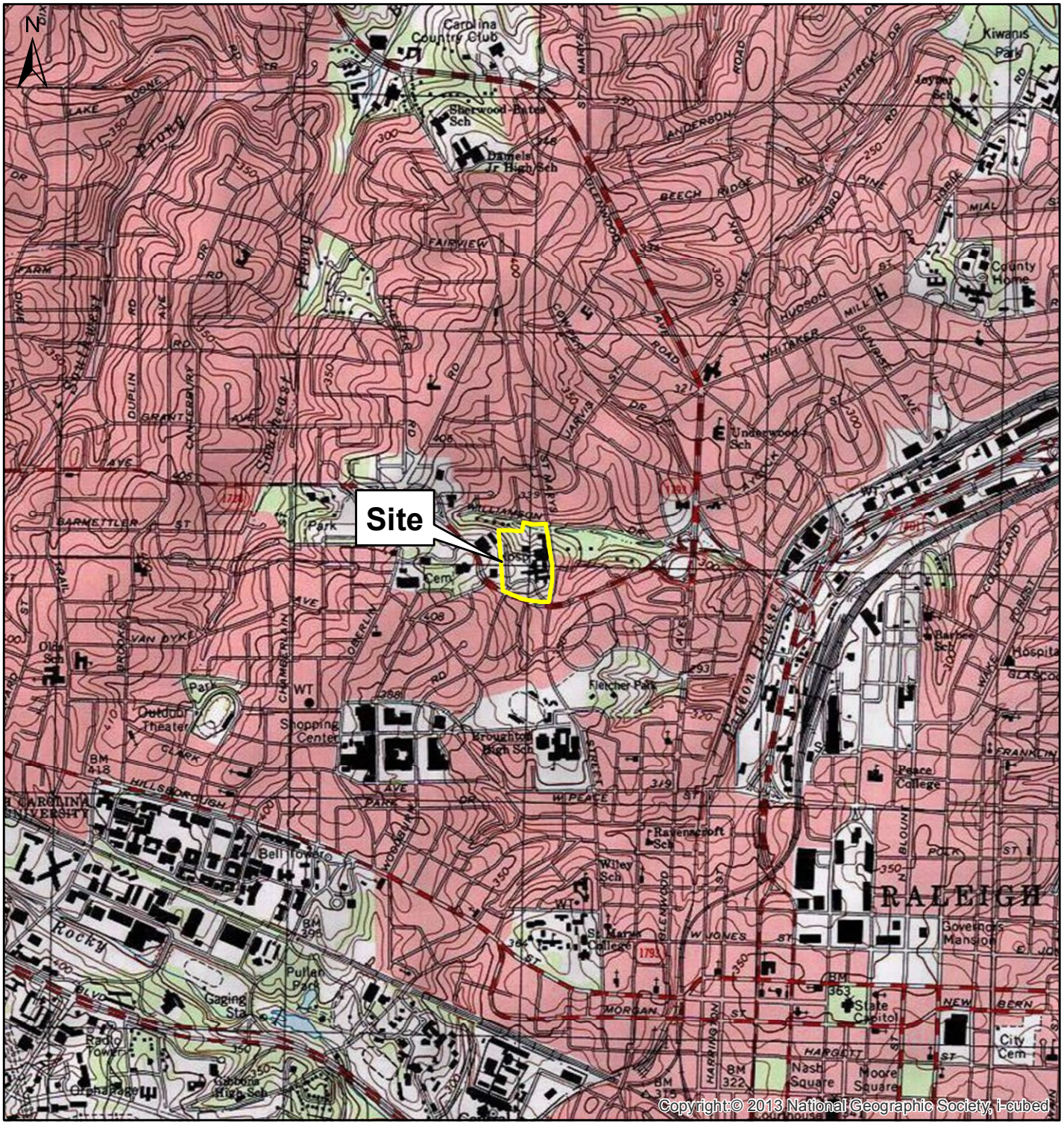
6.0 REFERENCES

EEC, Inc., 2004. Comprehensive Site Assessment Report: Employment Security Commission of North Carolina. GW Incident #: 26194, dated April 27, 2004.

EPA, 2015. Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground Storage Tank Site. US Environmental Protection Agency. June 2015.

Terracon, 2015. Phase I Environmental Site Assessment: North Carolina Employment Security Commission Property, Raleigh, Wake County, North Carolina. Terracon Project No. 70167125, dated April 15, 2016.

FIGURES

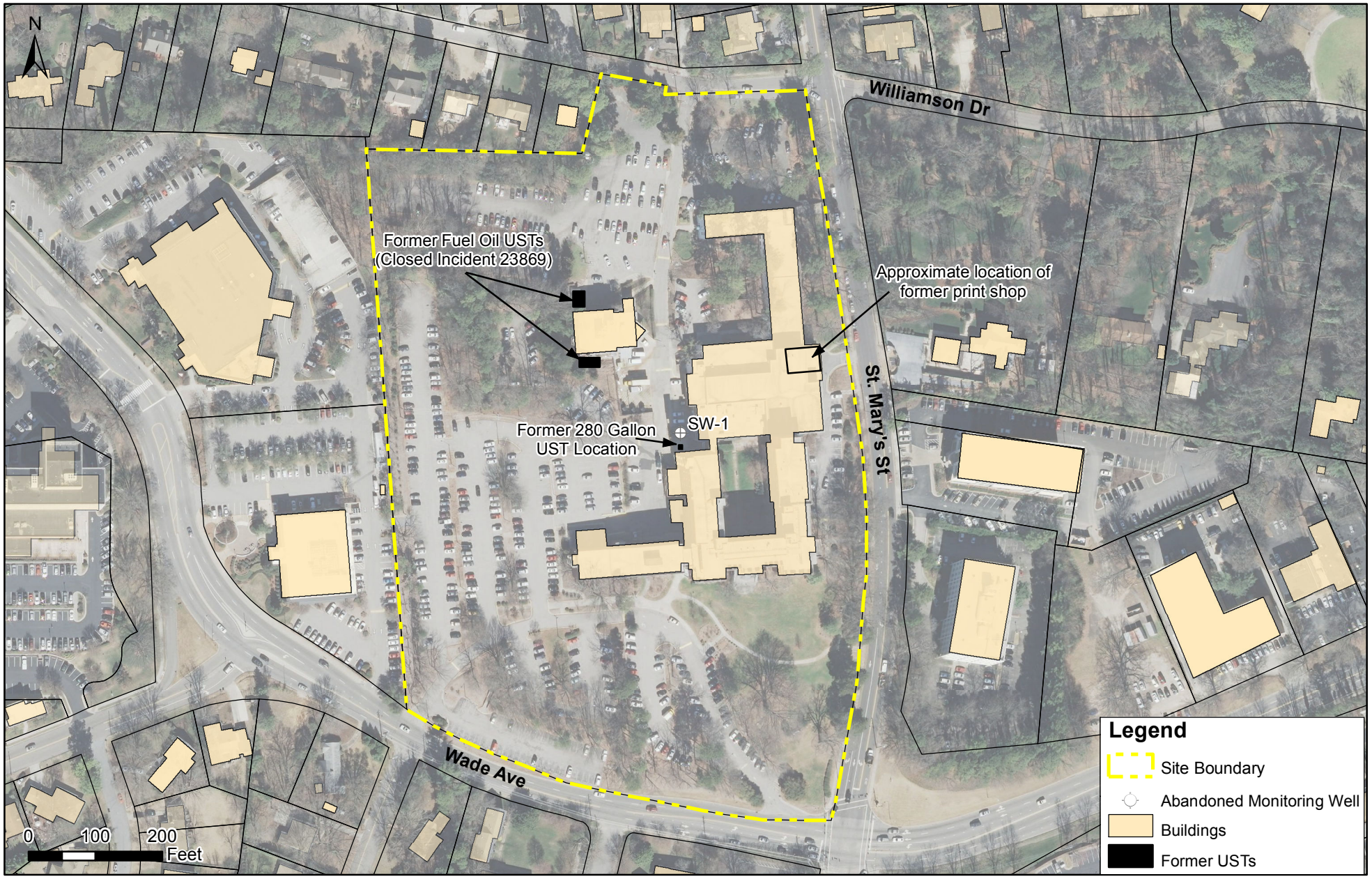


1,000 500 0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 8,000 9,000 10,000 Feet

CONTOUR INTERVAL 10 FEET

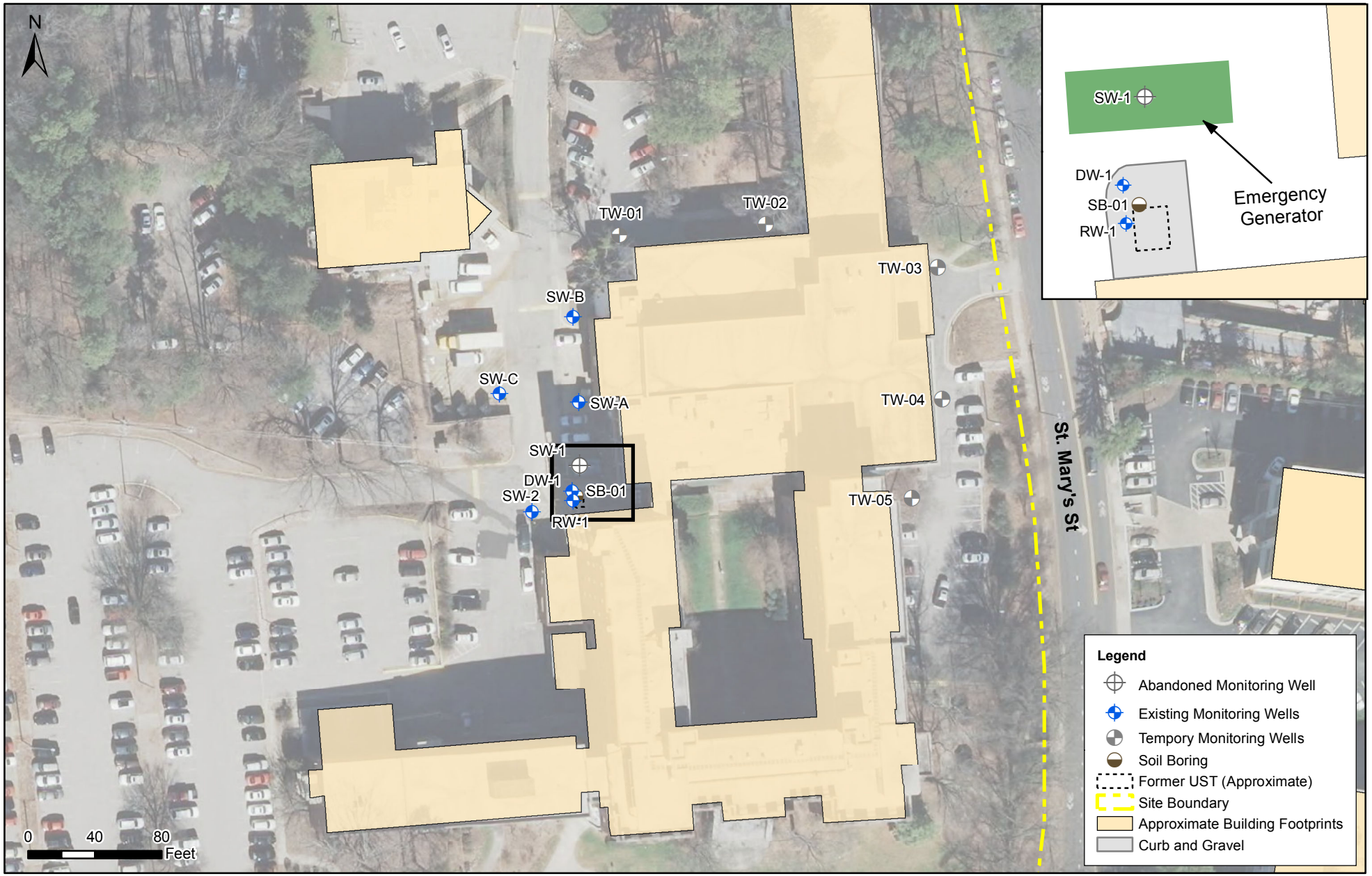
USGS TOPOGRAPHIC MAP
RALEIGH WEST, NC QUADRANGLE
1993

PM: JLF	Project No. 70167373	Terracon	Topographic Vicinity Map	EXHIBIT NO.
Drawn By: CMP	Scale: 1:24,000		NC Employment Security Commission Property 700 Wade Avenue Raleigh, Wake County, North Carolina	1
Checked By: JLF	File Path:			
Approved By: MTJ	Date: 9/13/2016	2401 Brentwood Drive, Suite 107 Raleigh, NC 27604 Phone: (919) 873-2211 Fax: (919) 873-9555		



PM: JLF	Project No. 70167318	Terracon	Site Location Map
Drawn By: DWM	Scale: 1 in = 83,333 ft		NC Employment Security Commission Property 700 Wade Avenue Raleigh, Wake County, North Carolina
Checked By: JLF	File Path: 70167318		EXHIBIT NO. 2
Approved By: JLF	Date: August 2016		

2401 Brentwood Road, Suite 107 Raleigh, NC 27604
Phone: (919) 873-2211 Fax: (919) 873-9555



PM: JLF	Project No. 70167318
Drawn By: DWM	Scale: 1 in = 80 ft
Checked By: JLF	File Path:
Approved By: JLF	Date: August 2016

Terracon

2401 Brentwood Road, Suite 107 Raleigh, NC 27604

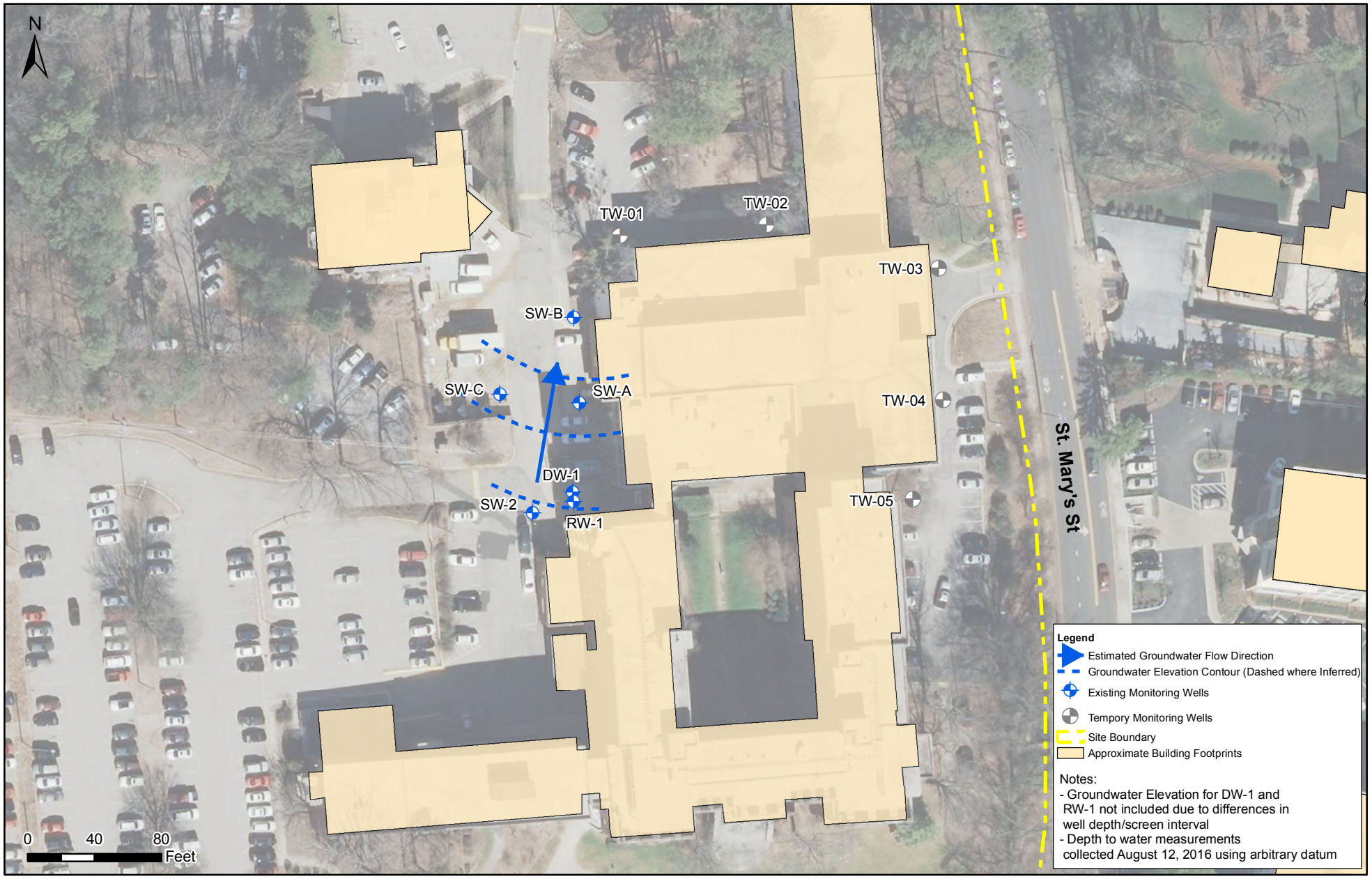
Phone: (919) 873-2211 Fax: (919) 873-9555

Sample Location Map

NC Employment Security Commission Property
700 Wade Avenue
Raleigh, Wake County, North Carolina

EXHIBIT NO.

3



PM: JLF	Project No. 70167318
Drawn By: DWM	Scale: 1 in = 80 ft
Checked By: JLF	File Path:
Approved By: JLF	Date: August 2016

Terracon
2401 Brentwood Road, Suite 107 Raleigh, NC 27604
Phone: (919) 873-2211 Fax: (919) 873-9555

Groundwater Elevation Map

NC Employment Security Commission Property
700 Wade Avenue
Raleigh, Wake County, North Carolina

EXHIBIT NO. 4

TABLES

Table 1
Monitoring Well Construction Details and Depth to Groundwater Measurements
Limited Site Investigation
North Carolina Employment Security Commission
700 Wade Avenue
Raleigh, Wake County, North Carolina
Terracon Project No. 70167318

Well ID	Date Installed	Date Water Level Measured	Well Casing Depth (ft. BGS)	Screened Interval (x to y ft. BGS)	Bottom of Well (ft. BGS)	Top of Casing Elevation (ft)	Depth to Water from Top of Casing (ft.)	Groundwater Elevation (ft)	Comments
DW-1	9/9-10/03	08/12/16	50	45-50	50	95.31	26.98	68.33	Permanent Monitoring Well
RW-1	NA	08/12/16	NA	NA	34	94.16	27.49	66.67	
SW-2	09/09/03	08/12/16	35	25-35	35	97.23	28.12	69.11	
SW-A	NA	08/12/16	NA	NA	29	91.46	24.22	67.24	
SW-B	NA	08/12/16	NA	NA	25	90.71	24.19	66.52	
SW-C	NA	08/12/16	NA	NA	26	92.06	24.33	67.73	
TW-01	08/11/16	08/11/16	28	18-28	28	--	22.37	--	Temporary Monitoring Well
TW-02	08/11/16	08/11/16	30	20-30	30	--	25.80	--	
TW-03	08/11/16	08/11/16	32	22-32	32	--	28.25	--	
TW-04	08/11/16	08/11/16	39	29-39	39	--	35.83	--	
TW-05	08/11/16	08/11/16	43	33-43	43	--	39.94	--	

Notes:
"--" Indicates not surveyed
NA - Information Not available
BGS - Below ground surface
Ft. - Feet
Temporary monitoring wells abandoned on 8/11/16
Corner of concrete stair support was used as an arbitrary benchmark with an elevation of 100 ft (EEC, Inc, 2004)
Wells SW-A, SW-B, and SW-C were assigned well identifications since they did not have ID tags and information regarding construction was not located

Table 2
Summary of Soil Analytical Results
Limited Site Investigation
North Carolina Employment Security Commission
700 Wade Avenue
Raleigh, Wake County, North Carolina
Terracon Project No. 70167318

Sample ID:	SB-01 (16-18)	SB-01 (10-12)	Soil-to-Groundwater MSCC	Residential MSCC	Industrial/ Commercial MSCC
Sample Collection Date:	8/11/2016	8/11/2016			
Sample Depth (ft bls):	16-18	10-12			
Volatile Organic Compounds (EPA Method 8260)					
n-Butylbenzene	51	32	4.3	626	16,350
sec-Butylbenzene	16	8.2	3.3	626	16,350
tert-Butylbenzene	0.7 J	0.69 J	3.4	626	16,350
Ethylbenzene	11	<3.5	4.9	1,560	40,000
Isopropylbenzene (Cumene)	15	0.79 J	1.7	1,564	40,880
p-Isopropyltoluene	11	8.7	0.12	100	4,000
Naphthalene	130	31	0.16	313	8,176
n-Propylbenzene	39	1.6 J	1.7	626	16,350
Toluene	1.5 J	<3.5	4.3	1,200	32,000
1,2,4-Trimethylbenzene	670	160	8.5	782	20,440
1,3,5-Trimethylbenzene	310	220	8.3	782	20,440
Xylenes (Total)	450	4.9 J	4.6	3,129	81,760
Bromoform	<6.9 L-04,V-05	<6.9 L-04, V-05	0.026	81	724
tert-Butylbenzene	0.69J	0.69 J	3.4	626	16,350
1,2-Dibromo-3-chloropropane (DBCP)	<.17L-04,V-05	<17L-04,V-05	NE	NE	NE
1,4-Dioxane	<150V-05	<170V-05	NE	NE	NE
m+p Xylene	300	3.0 J	4.6	3,129	81,760
o-Xylene	150	1.9 J	4.6	3,129	81,760
MADEP-VPH					
Aromatics, C9-C18	4,900	3,900	540	1,500	40,000

Notes:
Compounds detected in one or more sample are shown in the table
Results and standards shown are in milligrams per kilogram (mg/kg)
NE: Not established
J: estimated concentration above the laboratory method detection limit and below the laboratory reporting limit
<: Compound was not detected at a concentration above the laboratory reporting limit
ft bls - feet below land surface
MSCC: NCDEQ Soil-to-Groundwater Maximum Soil Contaminant Concentration
Light grey shading indicates concentrations exceed soil-to-groundwater MSCCs
Medium grey shading indicates concentrations exceed soil-to-groundwater and residential MSCCs
MADEP VPH: Massachusetts Department of Environmental Protection Volatile Petroleum Hydrocarbons
L-04: Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased to the low side.
V-05: Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Table 3
Summary of Groundwater Analytical Results
Limited Site Investigation
North Carolina Employment Security Commission
700 Wade Avenue
Raleigh, Wake County, North Carolina
Terracon Project No. 70167318

Sample ID:	DW-1	RW-1	SW-2	SW-A	SW-B	SW-C	TW-01	TW-02	TW-03	TW-04	TW-05	2L Standard	Residential VI GWSL	Non-Residential VI GWSL
Screen Interval (ft bls):	45-50	20-40	25-35	NA	NA	NA	18-28	20-30	22-32	29-39	33-43			
Sample Collection Date:	8/12/2016	8/12/2016	8/12/2016	8/12/2016	8/12/2016	8/12/2016	8/11/2016	8/11/2016	8/11/2016	8/11/2016	8/11/2016			
Volatile Organic Compounds (EPA Method 8260)														
Bromodichloromethane	<0.50	<25	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.6	8.76	38.2
tert-Butyl Alcohol (TBA)	<20	2,200	<20	<20	<20	<20	<20	5.5J	<20	<20	<20	NE	NE	NE
n-Butylbenzene	<1.0	13J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	70	NE	NE
Ethylbenzene	<1.0	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	600	34.9	152
Isopropylbenzene (Cumene)	<1.0	12J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	70	177	745
p-Isopropyltoluene (p-Cymene)	<1.0	9.5J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NE	NE	NE
Naphthalene	<2.0	420	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	6	34.8	146
n-Propylbenzene	<1.0	12J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	70	486	2,040
Toluene	<1.0	86	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	600	3,840	16,100
Trichlorofluoromethane (Freon 11)	<2.0	<100	0.65J	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2,000	NE	NE
1,2,4-Trimethylbenzene	<1.0	2,400	0.22J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	400	5.8	24.4
1,3,5-Trimethylbenzene	<1.0	910	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	400	NE	NE
Xylenes (Total)	<2.0	5,500	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	500	76.9	414
Dichlorodifluoromethane (Freon 12)	<2.0 L-04	<2.0 L-04	<2.0 L-04	<2.0 L-04	<2.0 L-04	<2.0 L-04	<2.0 L-04	<2.0 L-04	<2.0 L-04	<2.0 L-04	<2.0 L-04	1,000	1.49	6.25
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36J	<1.0	0.79J	<1.0	0.7	11.5	48.4
Chloroform	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	0.49J	0.45J	<2.0	70	8.14	35.5
Methyl tert-Butyl Ether (MTBE)	<1.0	<1.0	0.11J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.85J	<1.0	20	4,500	19,700
MADEP-VPH														
Aliphatics, C5-C8	<100	2,300	<100	<100	<100	<100	--	--	--	--	--	400	NE	NE
Aromatics, C9-C18	<100	7,600	<100	<100	<100	<100	--	--	--	--	--	10,000	NE	NE

Notes:
Detected compounds are shown in the table
Concentrations are reported in micrograms per liter (µg/L)
2L Standard - North Carolina Administrative Code 2L Groundwater Quality Standards (GWQS) (April 2013)
Non-Residential VI GWSL - NCDEQ Division of Waste Management Non-Residential Vapor Intrusion Groundwater Screening Levels (March 2016)
ft bls - feet below land surface
NE - Not Established
Light grey shading indicates a concentration above its applicable 2L Standard
Dark shading indicates a concentration above its respective Residential VI GWSL
Dark shading indicates a concentration above its respective 2L Standard, Residential VI GWSL, and Non-Residential VI GWSL
-- : not analyzed
< - Compound was not detected at a concentration above the laboratory reporting limit
J: Indicates estimated concentration less than the reporting limit and above the method detection limit

APPENDIX A

SOIL BORING LOGS

Lithology Log

Boring ID: TW-01

Terracon

Project Number:	70167318	Start Date/Time:	8/11/16 0830
Site Location:	Raleigh, NC	End Date/Time:	8/11/16 0910
Weather:	90s°F, sunny	Boring Diameter:	2"
Logged By:	CMP	Total Depth:	28'
Drilling Sub:	Regional Probing	Water Level:	
Drill Rig:	Geoprobe 5410	Well Installed:	Temp Type II

Sample Method	Drilling Method
☐ Hand Auger	☒ DPT
☒ Macro-Core	☐ HSA
☐ Split Spoon	☐ Mud Rotary
☐ Shelby Tube	☐ Air Rotary
	☐ Rock Core

Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID (ppm) / ppb	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-4	~48"	NA	>0.1	CL	(0-4) light brown, sandy CLAY, mica-rich to red-brown ~3" asphalt on top	NA	Hand Auger
4-8	~28"		>0.1		(4'-8') " " moist at ~8ft		DPT 4ft x 2"
8-12	~38"		>0.1	ML	(8'-11.8') light brown SILT very mica rich		
12-16	~48"		>0.1	SM SP	(11.8'-16') tan SAND, fine grained dry, some saprolite texture very little mica		
16-20	~40"		>0.1		(16-20') " " saprolite texture, some black manganese nodules slightly moist at 20'		
20-24	~42"		>0.1		(20'-24') - driller noted getting harder to wet tan SAND, moist, saprolite more manganese staining ~22ft 23.5' - transition to light grey + tan sandy, Saprolite mica-rich		
24-28	NA		NA		(24'-28') ~~Did not collect soils~~	wet, grey + tan sandy Saprolite (plagioclase + biotite rich) some PWR at bottom	
					Boring terminated @ 28ft to set temp well screen 18'-28' ~sand 16-28' -bentonik 14'-16'		

Notes: PID screened at two locations within each 4ft interval (screend on 2ft intervals)
Estimate DTW ~21-22 ft bls

ppm: parts per million ppb: parts per billion NA= Not applicable bls = below land surface

Lithology Log

Boring ID: TW-02

Terracon

Project Number:	70167318	Start Date/Time:	8/11/16 10:10
Site Location:	Raleigh, NC	End Date/Time:	8/11/16 10:50
Weather:	90s°F, sunny	Boring Diameter:	2"
Logged By:	CMP	Total Depth:	30'
Drilling Sub:	Regional Probing	Water Level:	
Drill Rig:	Geoprobe 5410	Well Installed:	temp Type II

Sample Method	Drilling Method
☐ Hand Auger	☒ DPT
☒ Macro-Core	☐ HSA
☐ Split Spoon	☐ Mud Rotary
☐ Shelby Tube	☐ Air Rotary
	☐ Rock Core

Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID (ppm / ppb)	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-4	~28"	NA	0.5 ~~>0.1~~ comp 8/11	CL	(0'-4') - light brown to red-brown sandy CLAY, mica-rich dry	NA	DPT 4ft x 2" macrocore
4-8	~48"	NA	>0.1		(4'-8') " " slightly more silty		
8-12	~48"	NA	>0.1	ML	(8'-~~12~~ 12.5') light brown SILT w/some clay very mica-rich, dry		
12-16	~48"	NA	>0.1		(12'-16') light brown mica-rich SILT slightly moist		
~~16-18~~ 16-20'	42"	NA	>0.1	SM	(16'-~~18~~ 20') " " w/some fine sand moist and saprolite texture ~19.5 ft		
~~20-24' 18-20 comp~~	44"	NA	>0.1		(18-20') " " coarse sand layer ~21.5-22' moist to wet		
24-28	48"	NA	>0.1		~~19.5-20'~~ comp 8/11 23.5'-24' - transition to grey-brown and tan mica-rich saprolite sandy SILT (24'-28') grey-brown and tan saprolite sandy SILT, wet		
28-30	48"	NA	>0.1				
					Boring terminated @30ft bls to set 1" temp well • screen 20'-30' • sand 18'-30' • bentonite		

Notes:

ppm: parts per million ppb: parts per billion NA= Not applicable bls = below land surface

Lithology Log

Boring ID: TW-03

Project Number:	70167318	Start Date/Time:	8/11/16 11:55
Site Location:	Raleigh, NC	End Date/Time:	8/11/16 12:35
Weather:	20° F	Boring Diameter:	3"
Logged By:		Total Depth:	32'
Drilling Sub:	Regional Probing	Water Level:	
Drill Rig:	Geoprobe 5410	Well Installed:	Temp Type II

Sample Method	Drilling Method
☐ Hand Auger	☒ DPT
☒ Macro-Core	☐ HSA
☐ Split Spoon	☐ Mud Rotary
☐ Shelby Tube	☐ Air Rotary
	☐ Rock Core

Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID (ppm/ ppb)	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-4	46"	NA	*0.1	CL	(0-4) red-brown silty CLAY, some apparent, angular quartz gravel at 4ft bls	NA	DPT 4ft x 2" macrocore
4-8	~48"	NA	*0.1		(4-8) " ", slightly more mica-rich		
8-12	~48"	NA	*0.1		(8-9) " " more silty + mica rich		
12-16	~48"	NA	*0.1	ML	(9-12') light brown SILT w/some very fine sand, very mica-rich		
16-20	~48	NA	*0.1	SM/ML	(12-16) " " light brown to tan slightly moist		
20-24	~48	NA	*0.1	SM/ML	(16-20) " " sandier		
24-28	~48"	NA	*0.1		(20-24) " " some dark brown iron or manganese streaks, moist to wet		
28-32	~48"	NA	*0.1		(24-28) " wet, more black streaks some saprolite texture		
					(28-32) " wet		
					Boring terminated @ 32 ft bls to set temp well (1") • screen 22-32' • sand 20-32' • bentonite 20'-0'		

Notes:
**should be ≤0.1 (not greater than) for all PID readings

ppm: parts per million ppb: parts per billion NA= Not applicable bls = below land surface

Lithology Log

Terracon

Boring ID: TW-04

Project Number:	70167318	Start Date/Time:	1310 8/11/16
Site Location:	Raleigh, NC	End Date/Time:	
Weather:	Sunny, 90s	Boring Diameter:	2"
Logged By:	DWM	Total Depth:	
Drilling Sub:	Regional Probing	Water Level:	
Drill Rig:	Geoprobe 5410	Well Installed:	Temp Type II

Sample Method	Drilling Method
☐ Hand Auger	☒ DPT
☒ Macro-Core	☐ HSA
☐ Split Spoon	☐ Mud Rotary
☐ Shelby Tube	☐ Air Rotary
	☐ Rock Core

Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID ppm / ppb	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-4	~45	NA	<0.1	CL	(0-2.5) red-brown silty CLAY, mica-rich. Asphalt from 0"-4"	NA	DPT 4ft x 2" macrocore
				SM	(2.5-3.5) ~~red-brown~~ grey silty SAND		
4-8	36	NA	<0.1	CL	(4-8) red-brown silty CLAY, mica-rich		
8-12	40	NA	<0.1	ML	(8-12) Light brown SILT, very mica-rich		
12-16	46	NA	<0.1		(12-16) Light brown mica-rich SILT		
16-20	48	NA	<0.1	SM	(16-20) " " sandier		
20-24	48	NA	<0.1		(20-24)" " w/ black streaking (manganese)		
24-28	48	NA	<0.1		(24-28)" " w/ black manganese streaking, moist		
28-32	48	NA	<0.1		(28-32) " ", saprolite texture, moist		
32-36	48	NA	<0.1		(32-36) ← slightly darker brown SILT, mica-rich w/ saprolite texture, moist		
36-40	48	NA	<0.1		(36-40) moist, saprolite texture same as above Boring terminated @ 40" bls to set up 1" temp well • screen 29'-39' • sand 27'-29' • bentonite		
					Boring terminated @ 40ft bls		

Notes:

~~Bottom~~ screen 29-39

ppm: parts per million ppb: parts per billion NA= Not applicable bls = below land surface

Lithology Log

Boring ID: TW-05

Project Number:	70167318	Start Date/Time:	8/11/16 15:00
Site Location:	Raleigh, NC	End Date/Time:	8/11/16 16:10
Weather:	90s°F, Sunny	Boring Diameter:	2"
Logged By:	CMP	Total Depth:	44'
Drilling Sub:	Regional Probing	Water Level:	
Drill Rig:	Geoprobe 5410	Well Installed:	Temp Type II

Sample Method: ☐ Hand Auger ☒ Macro-Core ☐ Split Spoon ☐ Shelby Tube

Drilling Method: ☒ DPT ☐ HSA ☐ Mud Rotary ☐ Air Rotary ☐ Rock Core

Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID ppm ppb	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-4	38"	NA	<0.1	CL	topsoil followed by red-brown CLAY, sandy, dry	NA	DPT 4ft x 2" Macrocore
4-8	42"	NA	<0.1		(4'-8') " " more mica rich		
8-~~10~~ 12 CMP	44"	NA	<0.1		(8-9) " "		
12-16 ~~10-12~~ CMP 8/11	46"	NA	<0.1	ML	(9-~~10~~ 11.5) light brown SILT sandy + mica-rich, dry		
16-20	48"	NA	<0.1	SM/ ML	(11.5-16) light brown to tan silty super fine SAND		
20-24	42"	NA	<0.1		(16-20) " "		
24-28			<0.1		(20-24) " "		
28-32			<0.1		(24-~~30~~ 28) " "		
32-36			<0.1		(28-32) " " ~30ft - slightly darker brown color		
36-40			<0.1		(32-36) " "		
40-~~44~~ CMP 43			<0.1	SP	(36'-40') very hard, slow drilling		
					(~35.5'-44') - Saprolite - white + tan SAND, wet moist to		
					boring terminated @ ~43ft bls close to DPT refusal to set temp well • Screen ~ 33-43ft bls		

Notes:

ppm: parts per million ppb: parts per billion NA= Not applicable bls = below land surface

Lithology Log

Boring ID: SB01

Terracon

Project Number:	70167318	Start Date/Time:	8/11/16 16:50
Site Location:	Raleigh, NC	End Date/Time:	8/11/16 17:25
Weather:	80s°F, overcast	Boring Diameter:	2"
Logged By:	CMP	Total Depth:	19'
Drilling Sub:	Regional Probing	Water Level:	dry
Drill Rig:	Geoprobe 5410	Well Installed:	No

Sample Method: ☐ Hand Auger ☒ Macro-Core ☐ Split Spoon ☐ Shelby Tube

Drilling Method: ☒ DPT ☐ HSA ☐ Mud Rotary ☐ Air Rotary ☐ Rock Core

Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID (ppm / ppb)	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-4	48"	NA	>0.1	CL	(0-4) – red-brown CLAY mica-rich, slightly sandy no odor	NA	Hand auger
4-8	40"	NA	>0.1	CL	(4-7') – " "		
				SM	(7'-8') – white+tan saprolite, silty SAND, no odor		
8-12	44"	10ft: 12.2 *12ft: 331.5		ML	(8-8.5) – " " 8.5-12) – red-brown to light brown SILT w/some clay mica-rich, strong petroleum odor	SB01 (10-12) 8260+VPH 17:40	
12-16	42"	13ft: 749.1 15ft: 424.2		ML	(12-16) – light brown to dark grey-brown SILT, mica-rich strong petroleum odor		
16-20 19	38"	*~~17ft~~ 18ft: 1286 19ft: 361.9		ML	(16-18) – tan/white to grey-brown sandy SILT + small gravelly layer (18-19) " " strong petroleum odor slightly moist?	SB-01 (16-18) 8260, MADEP VPH 17:30	
					Boring terminated @ ~19ft bls		

Notes:

ppm: parts per million ppb: parts per billion NA= Not applicable bls = below land surface

APPENDIX B

ANALYTICAL REPORTS AND CHAIN OF CUSTODY RECORDS

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 19, 2016

Justin Fabriziani
Terracon - Raleigh, NC
2401 Brentwood Road, Suite 107
Raleigh, NC 27604

Project Location: Employment Security Commission
Client Job Number:
Project Number: 70167318
Laboratory Work Order Number: 16H0673

Enclosed are results of analyses for samples received by the laboratory on August 12, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

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con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Terracon - Raleigh, NC
2401 Brentwood Road, Suite 107
Raleigh, NC 27604
ATTN: Justin Fabriziani

REPORT DATE: 8/19/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 70167318

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16H0673

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Employment Security Commission

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-01 (16-18)	16H0673-01	Soil		MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
TW-01	16H0673-02	Ground Water		SW-846 8260B	
TW-02	16H0673-03	Ground Water		SW-846 8260B	
TW-03	16H0673-04	Ground Water		SW-846 8260B	
TW-04	16H0673-05	Ground Water		SW-846 8260B	
TW-05	16H0673-06	Ground Water		SW-846 8260B	
SB-01 (10-12)	16H0673-07	Soil		MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
DW-1	16H0673-08	Ground Water		MADEP-VPH-04-1.1	
				SW-846 8260B	
MW-1	16H0673-09	Ground Water		MADEP-VPH-04-1.1	
				SW-846 8260B	
SW-2	16H0673-10	Ground Water		MADEP-VPH-04-1.1	
				SW-846 8260B	
SW-A	16H0673-11	Ground Water		MADEP-VPH-04-1.1	
				SW-846 8260B	
SW-B	16H0673-12	Ground Water		MADEP-VPH-04-1.1	
				SW-846 8260B	
SW-C	16H0673-13	Ground Water		MADEP-VPH-04-1.1	
				SW-846 8260B	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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MADEP-VPH-04-1.1

Qualifications:

RL-05

Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

C5-C8 Aliphatics
16H0673-01[SB-01 (16-18)], 16H0673-07[SB-01 (10-12)]

Unadjusted C5-C8 Aliphatics
16H0673-01[SB-01 (16-18)], 16H0673-07[SB-01 (10-12)]

SW-846 8260B

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Acrylonitrile
B156193-BS1, B156193-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB
16H0673-01[SB-01 (16-18)], 16H0673-07[SB-01 (10-12)], B156191-BLK1, B156191-BS1, B156191-BSD1

Bromoform
16H0673-01[SB-01 (16-18)], 16H0673-07[SB-01 (10-12)], B156191-BLK1, B156191-BS1, B156191-BSD1

Dichlorodifluoromethane (Freon 1
16H0673-02[TW-01], 16H0673-03[TW-02], 16H0673-04[TW-03], 16H0673-05[TW-04], 16H0673-06[TW-05], 16H0673-08[DW-1], 16H0673-09[MW-1], 16H0673-10[SW-2], 16H0673-11[SW-A], 16H0673-12[SW-B], 16H0673-13[SW-C], B156193-BLK1, B156193-BS1, B156193-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

2-Hexanone (MBK)
B156191-BS1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

16H0673-01[SB-01 (16-18)], 16H0673-07[SB-01 (10-12)], 16H0673-09[MW-1]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DB
16H0673-01[SB-01 (16-18)], 16H0673-07[SB-01 (10-12)], B156191-BLK1, B156191-BS1, B156191-BSD1

1,4-Dioxane
16H0673-01[SB-01 (16-18)], 16H0673-07[SB-01 (10-12)], B156191-BLK1, B156191-BS1, B156191-BSD1

Bromoform
16H0673-01[SB-01 (16-18)], 16H0673-07[SB-01 (10-12)], B156191-BLK1, B156191-BS1, B156191-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Acrylonitrile
B156193-BS1, B156193-BSD1

Bromomethane
B156191-BS1, B156191-BSD1

Chloromethane
B156191-BS1, B156191-BSD1

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MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SB-01 (16-18) Sampled: 8/11/2016 17:30

Sample ID: 16H0673-01

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	150	14	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Acrylonitrile	ND	15	1.7	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.5	0.31	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Benzene	ND	2.9	0.35	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Bromobenzene	ND	2.9	0.44	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Bromochloromethane	ND	2.9	0.65	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Bromodichloromethane	ND	2.9	0.86	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Bromoform	ND	5.9	0.62	mg/Kg dry	50	L-04, V-05	SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Bromomethane	ND	5.9	2.8	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
2-Butanone (MEK)	ND	59	6.9	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
tert-Butyl Alcohol (TBA)	ND	59	6.4	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
n-Butylbenzene	51	2.9	0.44	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
sec-Butylbenzene	16	2.9	0.38	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
tert-Butylbenzene	0.70	2.9	0.35	mg/Kg dry	50	J	SW-846 8260B	8/15/16	8/18/16 13:57	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.5	0.28	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Carbon Disulfide	ND	8.8	3.0	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Carbon Tetrachloride	ND	2.9	0.72	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Chlorobenzene	ND	2.9	0.47	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Chlorodibromomethane	ND	1.5	0.30	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Chloroethane	ND	5.9	0.82	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Chloroform	ND	5.9	0.64	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Chloromethane	ND	5.9	1.6	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
2-Chlorotoluene	ND	2.9	0.35	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
4-Chlorotoluene	ND	2.9	0.41	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	15	1.1	mg/Kg dry	50	L-04, V-05	SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2-Dibromoethane (EDB)	ND	1.5	0.43	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Dibromomethane	ND	2.9	0.47	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2-Dichlorobenzene	ND	2.9	0.50	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,3-Dichlorobenzene	ND	2.9	0.50	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,4-Dichlorobenzene	ND	2.9	0.44	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
trans-1,4-Dichloro-2-butene	ND	5.9	0.91	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	5.9	0.83	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,1-Dichloroethane	ND	2.9	0.46	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2-Dichloroethane	ND	2.9	0.57	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,1-Dichloroethylene	ND	2.9	0.62	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
cis-1,2-Dichloroethylene	ND	2.9	0.43	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
trans-1,2-Dichloroethylene	ND	2.9	0.44	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2-Dichloropropane	ND	2.9	0.38	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,3-Dichloropropane	ND	1.5	0.38	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
2,2-Dichloropropane	ND	2.9	0.62	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,1-Dichloropropene	ND	5.9	0.37	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
cis-1,3-Dichloropropene	ND	1.5	0.35	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
trans-1,3-Dichloropropene	ND	1.5	0.33	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Diethyl Ether	ND	5.9	0.65	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SB-01 (16-18) Sampled: 8/11/2016 17:30

Sample ID: 16H0673-01

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.5	0.53	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,4-Dioxane	ND	150	78	mg/Kg dry	50	V-05	SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Ethylbenzene	11	2.9	0.38	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Hexachlorobutadiene	ND	2.9	1.7	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
2-Hexanone (MBK)	ND	29	4.5	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Isopropylbenzene (Cumene)	15	2.9	0.35	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
p-Isopropyltoluene (p-Cymene)	11	2.9	0.44	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	2.9	0.26	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Methylene Chloride	ND	15	9.3	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	29	4.3	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Naphthalene	130	5.9	0.35	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
n-Propylbenzene	39	2.9	0.38	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Styrene	ND	2.9	0.44	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,1,1,2-Tetrachloroethane	ND	2.9	0.35	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,1,2,2-Tetrachloroethane	ND	1.5	0.47	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Tetrachloroethylene	ND	2.9	0.80	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Tetrahydrofuran	ND	29	3.1	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Toluene	1.5	2.9	0.50	mg/Kg dry	50	J	SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2,3-Trichlorobenzene	ND	15	0.41	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2,4-Trichlorobenzene	ND	2.9	0.56	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,3,5-Trichlorobenzene	ND	2.9	0.50	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,1,1-Trichloroethane	ND	2.9	0.38	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,1,2-Trichloroethane	ND	2.9	0.69	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Trichloroethylene	ND	2.9	0.59	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Trichlorofluoromethane (Freon 11)	ND	5.9	0.43	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2,3-Trichloropropane	ND	5.9	0.63	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.9	0.57	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
1,2,4-Trimethylbenzene	670	59	11	mg/Kg dry	1000		SW-846 8260B	8/19/16	8/19/16 7:48	EEH
1,3,5-Trimethylbenzene	310	2.9	0.38	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
Vinyl Chloride	ND	5.9	0.39	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
m+p Xylene	300	5.9	0.75	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH
o-Xylene	150	2.9	0.38	mg/Kg dry	50		SW-846 8260B	8/15/16	8/18/16 13:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		8/19/16 7:48
1,2-Dichloroethane-d4	103	70-130		8/18/16 13:57
Toluene-d8	102	70-130		8/19/16 7:48
Toluene-d8	102	70-130		8/18/16 13:57
4-Bromofluorobenzene	97.3	70-130		8/19/16 7:48
4-Bromofluorobenzene	104	70-130		8/18/16 13:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SB-01 (16-18) Sampled: 8/11/2016 17:30

Sample ID: 16H0673-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.19

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	2200	mg/Kg dry	200	RL-05	MADEP-VPH-04-1.1	8/16/16	8/17/16 6:33	EEH
C5-C8 Aliphatics	ND	2200	mg/Kg dry	200	RL-05	MADEP-VPH-04-1.1	8/16/16	8/17/16 6:33	EEH
Unadjusted C9-C12 Aliphatics	6200	2200	mg/Kg dry	200		MADEP-VPH-04-1.1	8/16/16	8/17/16 6:33	EEH
C9-C12 Aliphatics	ND	2200	mg/Kg dry	200		MADEP-VPH-04-1.1	8/16/16	8/17/16 6:33	EEH
C9-C10 Aromatics	4900	2200	mg/Kg dry	200		MADEP-VPH-04-1.1	8/16/16	8/17/16 6:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	76.8	70-130		8/17/16 6:33
2,5-Dibromotoluene (PID)	75.9	70-130		8/17/16 6:33

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Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SB-01 (16-18) Sampled: 8/11/2016 17:30

Sample ID: 16H0673-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	8/15/16	8/16/16 8:45	MRL

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Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-01 Sampled: 8/11/2016 17:00

Sample ID: 16H0673-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH

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Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-01 | Sampled: 8/11/2016 17:00

Sample ID: 16H0673-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.7	70-130		8/17/16 9:23
Toluene-d8	100	70-130		8/17/16 9:23
4-Bromofluorobenzene	99.3	70-130		8/17/16 9:23

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-02 Sampled: 8/11/2016 18:05

Sample ID: 16H0673-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
tert-Butyl Alcohol (TBA)	5.5	20	2.2	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 4:54	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-02 | Sampled: 8/11/2016 18:05

Sample ID: 16H0673-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Tetrachloroethylene	0.36	1.0	0.27	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 4:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.4	70-130		8/17/16 4:54
Toluene-d8	102	70-130		8/17/16 4:54
4-Bromofluorobenzene	97.2	70-130		8/17/16 4:54

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-03 Sampled: 8/11/2016 15:10

Sample ID: 16H0673-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Chloroform	0.49	2.0	0.22	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-03 | Sampled: 8/11/2016 15:10

Sample ID: 16H0673-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 9:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.1	70-130		8/17/16 9:50
Toluene-d8	101	70-130		8/17/16 9:50
4-Bromofluorobenzene	97.4	70-130		8/17/16 9:50

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Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-04 Sampled: 8/11/2016 15:50

Sample ID: 16H0673-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Chloroform	0.45	2.0	0.22	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH

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Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-04 | Sampled: 8/11/2016 15:50

Sample ID: 16H0673-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Methyl tert-Butyl Ether (MTBE)	0.85	1.0	0.090	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Tetrachloroethylene	0.79	1.0	0.27	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.7	70-130		8/17/16 5:21
Toluene-d8	100	70-130		8/17/16 5:21
4-Bromofluorobenzene	98.8	70-130		8/17/16 5:21

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Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-05 Sampled: 8/11/2016 18:40

Sample ID: 16H0673-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: TW-05 | Sampled: 8/11/2016 18:40

Sample ID: 16H0673-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 10:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.3	70-130		8/17/16 10:17
Toluene-d8	100	70-130		8/17/16 10:17
4-Bromofluorobenzene	97.4	70-130		8/17/16 10:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SB-01 (10-12) Sampled: 8/11/2016 17:40

Sample ID: 16H0673-07

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	170	17	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Acrylonitrile	ND	17	2.0	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
tert-Amyl Methyl Ether (TAME)	ND	1.7	0.37	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Benzene	ND	3.5	0.41	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Bromobenzene	ND	3.5	0.52	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Bromochloromethane	ND	3.5	0.77	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Bromodichloromethane	ND	3.5	1.0	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Bromoform	ND	6.9	0.73	mg/Kg dry	50	L-04, V-05	SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Bromomethane	ND	6.9	3.2	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
2-Butanone (MEK)	ND	69	8.2	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
tert-Butyl Alcohol (TBA)	ND	69	7.5	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
n-Butylbenzene	32	3.5	0.52	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
sec-Butylbenzene	8.2	3.5	0.45	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
tert-Butylbenzene	0.69	3.5	0.42	mg/Kg dry	50	J	SW-846 8260B	8/16/16	8/18/16 14:24	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	1.7	0.33	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Carbon Disulfide	ND	10	3.5	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Carbon Tetrachloride	ND	3.5	0.85	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Chlorobenzene	ND	3.5	0.55	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Chlorodibromomethane	ND	1.7	0.36	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Chloroethane	ND	6.9	0.97	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Chloroform	ND	6.9	0.76	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Chloromethane	ND	6.9	1.9	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
2-Chlorotoluene	ND	3.5	0.41	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
4-Chlorotoluene	ND	3.5	0.48	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	17	1.3	mg/Kg dry	50	L-04, V-05	SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2-Dibromoethane (EDB)	ND	1.7	0.51	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Dibromomethane	ND	3.5	0.55	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2-Dichlorobenzene	ND	3.5	0.59	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,3-Dichlorobenzene	ND	3.5	0.59	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,4-Dichlorobenzene	ND	3.5	0.52	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
trans-1,4-Dichloro-2-butene	ND	6.9	1.1	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Dichlorodifluoromethane (Freon 12)	ND	6.9	0.98	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,1-Dichloroethane	ND	3.5	0.55	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2-Dichloroethane	ND	3.5	0.67	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,1-Dichloroethylene	ND	3.5	0.73	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
cis-1,2-Dichloroethylene	ND	3.5	0.51	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
trans-1,2-Dichloroethylene	ND	3.5	0.52	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2-Dichloropropane	ND	3.5	0.45	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,3-Dichloropropane	ND	1.7	0.45	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
2,2-Dichloropropane	ND	3.5	0.74	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,1-Dichloropropene	ND	6.9	0.44	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
cis-1,3-Dichloropropene	ND	1.7	0.41	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
trans-1,3-Dichloropropene	ND	1.7	0.39	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Diethyl Ether	ND	6.9	0.77	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SB-01 (10-12) | Sampled: 8/11/2016 17:40

Sample ID: 16H0673-07

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	1.7	0.63	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,4-Dioxane	ND	170	92	mg/Kg dry	50	V-05	SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Ethylbenzene	ND	3.5	0.45	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Hexachlorobutadiene	ND	3.5	2.0	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
2-Hexanone (MBK)	ND	35	5.2	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Isopropylbenzene (Cumene)	0.79	3.5	0.41	mg/Kg dry	50	J	SW-846 8260B	8/16/16	8/18/16 14:24	EEH
p-Isopropyltoluene (p-Cymene)	8.7	3.5	0.52	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Methyl tert-Butyl Ether (MTBE)	ND	3.5	0.31	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Methylene Chloride	ND	17	11	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
4-Methyl-2-pentanone (MIBK)	ND	35	5.1	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Naphthalene	31	6.9	0.42	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
n-Propylbenzene	1.6	3.5	0.45	mg/Kg dry	50	J	SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Styrene	ND	3.5	0.52	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,1,1,2-Tetrachloroethane	ND	3.5	0.41	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,1,2,2-Tetrachloroethane	ND	1.7	0.55	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Tetrachloroethylene	ND	3.5	0.94	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Tetrahydrofuran	ND	35	3.7	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Toluene	ND	3.5	0.59	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2,3-Trichlorobenzene	ND	17	0.48	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2,4-Trichlorobenzene	ND	3.5	0.66	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,3,5-Trichlorobenzene	ND	3.5	0.59	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,1,1-Trichloroethane	ND	3.5	0.45	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,1,2-Trichloroethane	ND	3.5	0.82	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Trichloroethylene	ND	3.5	0.69	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Trichlorofluoromethane (Freon 11)	ND	6.9	0.51	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2,3-Trichloropropane	ND	6.9	0.74	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	3.5	0.67	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,2,4-Trimethylbenzene	160	3.5	0.62	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
1,3,5-Trimethylbenzene	220	3.5	0.45	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
Vinyl Chloride	ND	6.9	0.46	mg/Kg dry	50		SW-846 8260B	8/16/16	8/18/16 14:24	EEH
m+p Xylene	3.0	6.9	0.88	mg/Kg dry	50	J	SW-846 8260B	8/16/16	8/18/16 14:24	EEH
o-Xylene	1.9	3.5	0.45	mg/Kg dry	50	J	SW-846 8260B	8/16/16	8/18/16 14:24	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		8/18/16 14:24
Toluene-d8	99.6	70-130		8/18/16 14:24
4-Bromofluorobenzene	99.4	70-130		8/18/16 14:24

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Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SB-01 (10-12) Sampled: 8/11/2016 17:40

Sample ID: 16H0673-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.12

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	1400	mg/Kg dry	100	RL-05	MADEP-VPH-04-1.1	8/16/16	8/17/16 7:09	EEH
C5-C8 Aliphatics	ND	1400	mg/Kg dry	100	RL-05	MADEP-VPH-04-1.1	8/16/16	8/17/16 7:09	EEH
Unadjusted C9-C12 Aliphatics	4600	1400	mg/Kg dry	100		MADEP-VPH-04-1.1	8/16/16	8/17/16 7:09	EEH
C9-C12 Aliphatics	ND	1400	mg/Kg dry	100		MADEP-VPH-04-1.1	8/16/16	8/17/16 7:09	EEH
C9-C10 Aromatics	3900	1400	mg/Kg dry	100		MADEP-VPH-04-1.1	8/16/16	8/17/16 7:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2,5-Dibromotoluene (FID)	74.9	70-130		8/17/16 7:09	
2,5-Dibromotoluene (PID)	79.3	70-130		8/17/16 7:09	

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Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SB-01 (10-12) Sampled: 8/11/2016 17:40

Sample ID: 16H0673-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.0		% Wt	1		SM 2540G	8/15/16	8/16/16 8:45	MRL

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Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: DW-1 Sampled: 8/12/2016 13:30

Sample ID: 16H0673-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: DW-1 | Sampled: 8/12/2016 13:30

Sample ID: 16H0673-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 5:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.1	70-130		8/17/16 5:48
Toluene-d8	99.4	70-130		8/17/16 5:48
4-Bromofluorobenzene	97.2	70-130		8/17/16 5:48

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: DW-1 Sampled: 8/12/2016 13:30

Sample ID: 16H0673-08

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:04	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:04	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:04	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:04	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	86.0	70-130		8/16/16 18:04
2,5-Dibromotoluene (PID)	71.2	70-130		8/16/16 18:04

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: MW-1 Sampled: 8/12/2016 14:00

Sample ID: 16H0673-09

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2500	240	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Acrylonitrile	ND	250	29	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	25	5.3	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Benzene	ND	50	6.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Bromobenzene	ND	50	7.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Bromochloromethane	ND	50	11	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Bromodichloromethane	ND	25	15	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Bromoform	ND	100	10	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Bromomethane	ND	100	47	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
2-Butanone (MEK)	ND	1000	120	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
tert-Butyl Alcohol (TBA)	2200	1000	110	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
n-Butylbenzene	13	50	7.5	µg/L	50	J	SW-846 8260B	8/16/16	8/17/16 10:43	EEH
sec-Butylbenzene	ND	50	6.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
tert-Butylbenzene	ND	50	6.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	25	4.8	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Carbon Disulfide	ND	200	51	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Carbon Tetrachloride	ND	250	12	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Chlorobenzene	ND	50	8.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Chlorodibromomethane	ND	25	5.2	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Chloroethane	ND	100	14	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Chloroform	ND	100	11	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Chloromethane	ND	100	28	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
2-Chlorotoluene	ND	50	6.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
4-Chlorotoluene	ND	50	7.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	18	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2-Dibromoethane (EDB)	ND	25	7.4	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Dibromomethane	ND	50	8.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2-Dichlorobenzene	ND	50	8.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,3-Dichlorobenzene	ND	50	8.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,4-Dichlorobenzene	ND	50	7.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
trans-1,4-Dichloro-2-butene	ND	100	16	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	100	14	µg/L	50	L-04	SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,1-Dichloroethane	ND	50	7.9	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2-Dichloroethane	ND	50	9.7	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,1-Dichloroethylene	ND	50	10	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
cis-1,2-Dichloroethylene	ND	50	7.4	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
trans-1,2-Dichloroethylene	ND	50	7.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2-Dichloropropane	ND	50	6.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,3-Dichloropropane	ND	25	6.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
2,2-Dichloropropane	ND	50	11	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,1-Dichloropropene	ND	100	6.4	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
cis-1,3-Dichloropropene	ND	25	6.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
trans-1,3-Dichloropropene	ND	25	5.6	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Diethyl Ether	ND	100	11	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: MW-1 | Sampled: 8/12/2016 14:00

Sample ID: 16H0673-09

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	25	9.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,4-Dioxane	ND	2500	1300	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Ethylbenzene	87	50	6.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Hexachlorobutadiene	ND	30	29	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
2-Hexanone (MBK)	ND	500	76	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Isopropylbenzene (Cumene)	12	50	6.0	µg/L	50	J	SW-846 8260B	8/16/16	8/17/16 10:43	EEH
p-Isopropyltoluene (p-Cymene)	9.5	50	7.5	µg/L	50	J	SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	50	4.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Methylene Chloride	ND	250	160	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	500	73	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Naphthalene	420	100	6.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
n-Propylbenzene	12	50	6.5	µg/L	50	J	SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Styrene	ND	50	7.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,1,1,2-Tetrachloroethane	ND	50	6.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,1,2,2-Tetrachloroethane	ND	25	8.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Tetrachloroethylene	ND	50	14	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Tetrahydrofuran	ND	500	54	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Toluene	86	50	8.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2,3-Trichlorobenzene	ND	250	7.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2,4-Trichlorobenzene	ND	50	9.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,3,5-Trichlorobenzene	ND	50	8.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,1,1-Trichloroethane	ND	50	6.6	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,1,2-Trichloroethane	ND	50	12	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Trichloroethylene	ND	50	10	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Trichlorofluoromethane (Freon 11)	ND	100	7.4	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2,3-Trichloropropane	ND	100	11	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	9.8	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,2,4-Trimethylbenzene	2400	50	9.0	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
1,3,5-Trimethylbenzene	910	50	6.5	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
Vinyl Chloride	ND	100	6.6	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
m+p Xylene	2700	100	13	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH
o-Xylene	2800	50	6.6	µg/L	50		SW-846 8260B	8/16/16	8/17/16 10:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.9	70-130		8/17/16 10:43
Toluene-d8	99.9	70-130		8/17/16 10:43
4-Bromofluorobenzene	101	70-130		8/17/16 10:43

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: MW-1 | Sampled: 8/12/2016 14:00

Sample ID: 16H0673-09

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	2400	1000	µg/L	10		MADEP-VPH-04-1.1	8/16/16	8/17/16 7:06	EEH
C5-C8 Aliphatics	2300	1000	µg/L	10		MADEP-VPH-04-1.1	8/16/16	8/17/16 7:06	EEH
Unadjusted C9-C12 Aliphatics	9900	1000	µg/L	10		MADEP-VPH-04-1.1	8/16/16	8/17/16 7:06	EEH
C9-C12 Aliphatics	ND	1000	µg/L	10		MADEP-VPH-04-1.1	8/16/16	8/17/16 7:06	EEH
C9-C10 Aromatics	7600	1000	µg/L	10		MADEP-VPH-04-1.1	8/16/16	8/17/16 7:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2,5-Dibromotoluene (FID)	88.7	70-130		8/17/16 7:06	
2,5-Dibromotoluene (PID)	77.5	70-130		8/17/16 7:06	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-2 Sampled: 8/12/2016 12:45

Sample ID: 16H0673-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Bromodichloromethane	1.0	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Chloroform	3.3	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-2 | Sampled: 8/12/2016 12:45

Sample ID: 16H0673-10

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Methyl tert-Butyl Ether (MTBE)	0.11	1.0	0.090	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Trichlorofluoromethane (Freon 11)	0.65	2.0	0.15	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,2,4-Trimethylbenzene	0.22	1.0	0.18	µg/L	1	J	SW-846 8260B	8/16/16	8/17/16 6:15	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.4	70-130		8/17/16 6:15
Toluene-d8	99.3	70-130		8/17/16 6:15
4-Bromofluorobenzene	98.3	70-130		8/17/16 6:15

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-2 Sampled: 8/12/2016 12:45

Sample ID: 16H0673-10

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:41	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:41	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:41	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:41	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 18:41	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	86.9	70-130		8/16/16 18:41
2,5-Dibromotoluene (PID)	73.9	70-130		8/16/16 18:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-A Sampled: 8/12/2016 11:25

Sample ID: 16H0673-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-A | Sampled: 8/12/2016 11:25

Sample ID: 16H0673-11

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 6:41	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.4	70-130		8/17/16 6:41
Toluene-d8	99.1	70-130		8/17/16 6:41
4-Bromofluorobenzene	96.6	70-130		8/17/16 6:41

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-A Sampled: 8/12/2016 11:25

Sample ID: 16H0673-11

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:17	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:17	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:17	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:17	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	89.2	70-130		8/16/16 19:17
2,5-Dibromotoluene (PID)	75.3	70-130		8/16/16 19:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-B Sampled: 8/12/2016 10:10

Sample ID: 16H0673-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-B | Sampled: 8/12/2016 10:10

Sample ID: 16H0673-12

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.0	70-130		8/17/16 7:08
Toluene-d8	101	70-130		8/17/16 7:08
4-Bromofluorobenzene	96.6	70-130		8/17/16 7:08

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-B Sampled: 8/12/2016 10:10

Sample ID: 16H0673-12

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:54	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:54	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:54	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:54	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 19:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	94.4	70-130		8/16/16 19:54
2,5-Dibromotoluene (PID)	78.2	70-130		8/16/16 19:54

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-C Sampled: 8/12/2016 12:00

Sample ID: 16H0673-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Bromobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Bromodichloromethane	ND	0.50	0.30	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Bromoform	ND	2.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
n-Butylbenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
sec-Butylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
tert-Butylbenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.095	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Carbon Tetrachloride	ND	5.0	0.25	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Chloromethane	ND	2.0	0.55	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
2-Chlorotoluene	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
4-Chlorotoluene	ND	1.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.37	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Dibromomethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.31	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.28	µg/L	1	L-04	SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,3-Dichloropropane	ND	0.50	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
2,2-Dichloropropane	ND	1.0	0.21	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Diethyl Ether	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH

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Project Location: Employment Security Commissio | Sample Description: | Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-C | Sampled: 8/12/2016 12:00

Sample ID: 16H0673-13

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Hexachlorobutadiene	ND	0.60	0.59	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
n-Propylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Tetrachloroethylene	ND	1.0	0.27	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,3,5-Trichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,1,1-Trichloroethane	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,1,2-Trichloroethane	ND	1.0	0.24	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2,3-Trichloropropane	ND	2.0	0.22	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.20	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
1,3,5-Trimethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
m+p Xylene	ND	2.0	0.26	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	8/16/16	8/17/16 7:35	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.4	70-130		8/17/16 7:35
Toluene-d8	101	70-130		8/17/16 7:35
4-Bromofluorobenzene	98.4	70-130		8/17/16 7:35

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Project Location: Employment Security Commissio Sample Description: Work Order: 16H0673

Date Received: 8/12/2016

Field Sample #: SW-C Sampled: 8/12/2016 12:00

Sample ID: 16H0673-13

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 20:30	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 20:30	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 20:30	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 20:30	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	8/16/16	8/16/16 20:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	90.7	70-130		8/16/16 20:30
2,5-Dibromotoluene (PID)	76.4	70-130		8/16/16 20:30

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Sample Extraction Data

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0673-01 [SB-01 (16-18)]	B156172	5.90	5.80	08/16/16
16H0673-07 [SB-01 (10-12)]	B156172	5.60	6.20	08/16/16

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16H0673-08 [DW-1]	B156171	5	5.00	08/16/16
16H0673-09 [MW-1]	B156171	0.5	5.00	08/16/16
16H0673-10 [SW-2]	B156171	5	5.00	08/16/16
16H0673-11 [SW-A]	B156171	5	5.00	08/16/16
16H0673-12 [SW-B]	B156171	5	5.00	08/16/16
16H0673-13 [SW-C]	B156171	5	5.00	08/16/16

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16H0673-01 [SB-01 (16-18)]	B156107	08/15/16
16H0673-07 [SB-01 (10-12)]	B156107	08/15/16

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
16H0673-01 [SB-01 (16-18)]	B156191	5.49	5.66	0.02	50	08/15/16
16H0673-07 [SB-01 (10-12)]	B156191	5.38	6.02	0.02	50	08/16/16

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
16H0673-01RE1 [SB-01 (16-18)]	B156460	5.49	5.66	0.001	50	08/19/16

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16H0673-02 [TW-01]	B156193	5	5.00	08/16/16
16H0673-03 [TW-02]	B156193	5	5.00	08/16/16
16H0673-04 [TW-03]	B156193	5	5.00	08/16/16
16H0673-05 [TW-04]	B156193	5	5.00	08/16/16
16H0673-06 [TW-05]	B156193	5	5.00	08/16/16
16H0673-08 [DW-1]	B156193	5	5.00	08/16/16
16H0673-09 [MW-1]	B156193	0.1	5.00	08/16/16
16H0673-10 [SW-2]	B156193	5	5.00	08/16/16
16H0673-11 [SW-A]	B156193	5	5.00	08/16/16
16H0673-12 [SW-B]	B156193	5	5.00	08/16/16
16H0673-13 [SW-C]	B156193	5	5.00	08/16/16

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156191 - SW-846 5035										
Blank (B156191-BLK1)				Prepared: 08/16/16 Analyzed: 08/18/16						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.10	mg/Kg wet							L-04, V-05
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							L-04, V-05
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-05
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B156191 - SW-846 5035												
Blank (B156191-BLK1)				Prepared: 08/16/16 Analyzed: 08/18/16								
Methylene Chloride	ND	0.25	mg/Kg wet									
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet									
Naphthalene	ND	0.10	mg/Kg wet									
n-Propylbenzene	ND	0.050	mg/Kg wet									
Styrene	ND	0.050	mg/Kg wet									
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet									
Tetrachloroethylene	ND	0.050	mg/Kg wet									
Tetrahydrofuran	ND	0.50	mg/Kg wet									
Toluene	ND	0.050	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet									
1,3,5-Trichlorobenzene	ND	0.050	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet									
Trichloroethylene	ND	0.050	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet									
Vinyl Chloride	ND	0.10	mg/Kg wet									
m+p Xylene	ND	0.10	mg/Kg wet									
o-Xylene	ND	0.050	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0253*		mg/Kg wet	0.0250		101		70-130				
Surrogate: Toluene-d8	*0.0252*		mg/Kg wet	0.0250		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0241*		mg/Kg wet	0.0250		96.4		70-130				
LCS (B156191-BS1)				Prepared: 08/16/16 Analyzed: 08/18/16								
Acetone	0.0888	0.057	mg/Kg wet	0.113		78.4		70-160				†
Acrylonitrile	0.0125	0.0057	mg/Kg wet	0.0113		110		70-130				
tert-Amyl Methyl Ether (TAME)	0.00980	0.00057	mg/Kg wet	0.0113		86.5		70-130				
Benzene	0.0125	0.0011	mg/Kg wet	0.0113		110		70-130				
Bromobenzene	0.0115	0.0011	mg/Kg wet	0.0113		102		70-130				
Bromochloromethane	0.0123	0.0011	mg/Kg wet	0.0113		109		70-130				
Bromodichloromethane	0.0115	0.0011	mg/Kg wet	0.0113		102		70-130				
Bromoform	0.00763	0.0023	mg/Kg wet	0.0113		**67.3**	*	70-130			L-04, V-05	
Bromomethane	0.00919	0.0023	mg/Kg wet	0.0113		81.1		40-130			V-20	†
2-Butanone (MEK)	0.0846	0.023	mg/Kg wet	0.113		74.7		70-160				†
tert-Butyl Alcohol (TBA)	0.0858	0.023	mg/Kg wet	0.113		75.7		40-130				†
n-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102		70-130				
sec-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		102		70-130				
tert-Butylbenzene	0.0115	0.0011	mg/Kg wet	0.0113		101		70-160				†
tert-Butyl Ethyl Ether (TBEE)	0.0104	0.00057	mg/Kg wet	0.0113		91.7		70-130				
Carbon Disulfide	0.0133	0.0034	mg/Kg wet	0.0113		117		70-130				
Carbon Tetrachloride	0.0108	0.0011	mg/Kg wet	0.0113		95.0		70-130				
Chlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130				
Chlorodibromomethane	0.0107	0.00057	mg/Kg wet	0.0113		94.7		70-130				
Chloroethane	0.0121	0.0023	mg/Kg wet	0.0113		107		70-130				
Chloroform	0.0125	0.0023	mg/Kg wet	0.0113		111		70-130				
Chloromethane	0.0103	0.0023	mg/Kg wet	0.0113		90.7		70-130			V-20	
2-Chlorotoluene	0.0108	0.0011	mg/Kg wet	0.0113		95.5		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B156191 - SW-846 5035												
LCS (B156191-BS1)				Prepared: 08/16/16 Analyzed: 08/18/16								
4-Chlorotoluene	0.0113	0.0011	mg/Kg wet	0.0113		99.8		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.00730	0.0057	mg/Kg wet	0.0113		**64.4**	*	70-130			L-04, V-05	
1,2-Dibromoethane (EDB)	0.0123	0.00057	mg/Kg wet	0.0113		109		70-130				
Dibromomethane	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130				
1,2-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.3		70-130				
1,3-Dichlorobenzene	0.0116	0.0011	mg/Kg wet	0.0113		102		70-130				
1,4-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		99.7		70-130				
trans-1,4-Dichloro-2-butene	0.00793	0.0023	mg/Kg wet	0.0113		70.0		70-130				
Dichlorodifluoromethane (Freon 12)	0.00824	0.0023	mg/Kg wet	0.0113		72.7		40-160				†
1,1-Dichloroethane	0.0124	0.0011	mg/Kg wet	0.0113		110		70-130				
1,2-Dichloroethane	0.0114	0.0011	mg/Kg wet	0.0113		101		70-130				
1,1-Dichloroethylene	0.0136	0.0011	mg/Kg wet	0.0113		120		70-130				
cis-1,2-Dichloroethylene	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130				
trans-1,2-Dichloroethylene	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130				
1,2-Dichloropropane	0.0116	0.0011	mg/Kg wet	0.0113		102		70-130				
1,3-Dichloropropane	0.0118	0.00057	mg/Kg wet	0.0113		104		70-130				
2,2-Dichloropropane	0.00972	0.0011	mg/Kg wet	0.0113		85.8		70-130				
1,1-Dichloropropene	0.0122	0.0023	mg/Kg wet	0.0113		107		70-130				
cis-1,3-Dichloropropene	0.0103	0.00057	mg/Kg wet	0.0113		90.7		70-130				
trans-1,3-Dichloropropene	0.0101	0.00057	mg/Kg wet	0.0113		88.9		70-130				
Diethyl Ether	0.0117	0.0023	mg/Kg wet	0.0113		103		70-130				
Diisopropyl Ether (DIPE)	0.0106	0.00057	mg/Kg wet	0.0113		93.7		70-130				
1,4-Dioxane	0.0611	0.057	mg/Kg wet	0.113		53.9		40-160			V-05	†
Ethylbenzene	0.0117	0.0011	mg/Kg wet	0.0113		103		70-130				
Hexachlorobutadiene	0.0111	0.0011	mg/Kg wet	0.0113		97.6		70-160				
2-Hexanone (MBK)	0.0776	0.011	mg/Kg wet	0.113		**68.5**	*	70-160			L-07	†
Isopropylbenzene (Cumene)	0.0137	0.0011	mg/Kg wet	0.0113		121		70-130				
p-Isopropyltoluene (p-Cymene)	0.0111	0.0011	mg/Kg wet	0.0113		98.0		70-130				
Methyl tert-Butyl Ether (MTBE)	0.00995	0.0011	mg/Kg wet	0.0113		87.8		70-130				
Methylene Chloride	0.0131	0.0057	mg/Kg wet	0.0113		116		40-160				†
4-Methyl-2-pentanone (MIBK)	0.0850	0.011	mg/Kg wet	0.113		75.0		70-160				†
Naphthalene	0.0100	0.0023	mg/Kg wet	0.0113		88.6		40-130				†
n-Propylbenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.1		70-130				
Styrene	0.0115	0.0011	mg/Kg wet	0.0113		102		70-130				
1,1,1,2-Tetrachloroethane	0.0106	0.0011	mg/Kg wet	0.0113		93.6		70-130				
1,1,2,2-Tetrachloroethane	0.0106	0.00057	mg/Kg wet	0.0113		93.9		70-130				
Tetrachloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103		70-130				
Tetrahydrofuran	0.00867	0.011	mg/Kg wet	0.0113		76.5		70-130			J	
Toluene	0.0123	0.0011	mg/Kg wet	0.0113		109		70-130				
1,2,3-Trichlorobenzene	0.0101	0.0057	mg/Kg wet	0.0113		89.2		70-130				
1,2,4-Trichlorobenzene	0.0104	0.0011	mg/Kg wet	0.0113		92.1		70-130				
1,3,5-Trichlorobenzene	0.00989	0.0011	mg/Kg wet	0.0113		87.3		70-130				
1,1,1-Trichloroethane	0.0117	0.0011	mg/Kg wet	0.0113		103		70-130				
1,1,2-Trichloroethane	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130				
Trichloroethylene	0.0130	0.0011	mg/Kg wet	0.0113		115		70-130				
Trichlorofluoromethane (Freon 11)	0.0116	0.0023	mg/Kg wet	0.0113		102		70-130				
1,2,3-Trichloropropane	0.0109	0.0023	mg/Kg wet	0.0113		96.4		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0137	0.0011	mg/Kg wet	0.0113		121		70-130				
1,2,4-Trimethylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.9		70-130				
1,3,5-Trimethylbenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.4		70-130				
Vinyl Chloride	0.00989	0.0023	mg/Kg wet	0.0113		87.3		40-130				†

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B156191 - SW-846 5035												
LCS (B156191-BS1)				Prepared: 08/16/16 Analyzed: 08/18/16								
m+p Xylene	0.0229	0.0023	mg/Kg wet	0.0227		101		70-130				
o-Xylene	0.0116	0.0011	mg/Kg wet	0.0113		102		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0282*		mg/Kg wet	0.0283		99.6		70-130				
Surrogate: Toluene-d8	*0.0288*		mg/Kg wet	0.0283		102		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0278*		mg/Kg wet	0.0283		98.0		70-130				
LCS Dup (B156191-BSD1)				Prepared: 08/16/16 Analyzed: 08/18/16								
Acetone	0.0915	0.057	mg/Kg wet	0.113		80.8		70-160	2.98	25		†
Acrylonitrile	0.0127	0.0057	mg/Kg wet	0.0113		112		70-130	1.71	25		
tert-Amyl Methyl Ether (TAME)	0.0118	0.00057	mg/Kg wet	0.0113		104		70-130	18.8	25		
Benzene	0.0122	0.0011	mg/Kg wet	0.0113		108		70-130	2.20	25		
Bromobenzene	0.0114	0.0011	mg/Kg wet	0.0113		100		70-130	1.29	25		
Bromochloromethane	0.0126	0.0011	mg/Kg wet	0.0113		111		70-130	2.09	25		
Bromodichloromethane	0.0108	0.0011	mg/Kg wet	0.0113		95.1		70-130	6.51	25		
Bromoform	0.00737	0.0023	mg/Kg wet	0.0113		**65.0**	*	70-130	3.48	25	L-04, V-05	
Bromomethane	0.0105	0.0023	mg/Kg wet	0.0113		92.8		40-130	13.5	25	V-20	†
2-Butanone (MEK)	0.0885	0.023	mg/Kg wet	0.113		78.1		70-160	4.49	25		†
tert-Butyl Alcohol (TBA)	0.0938	0.023	mg/Kg wet	0.113		82.8		40-130	8.95	25		†
n-Butylbenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.9		70-130	2.79	25		
sec-Butylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		101		70-130	0.891	25		
tert-Butylbenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.4		70-160	3.83	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0121	0.00057	mg/Kg wet	0.0113		107		70-130	15.0	25		
Carbon Disulfide	0.0137	0.0034	mg/Kg wet	0.0113		121		70-130	3.28	25		
Carbon Tetrachloride	0.0107	0.0011	mg/Kg wet	0.0113		94.5		70-130	0.528	25		
Chlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130	0.374	25		
Chlorodibromomethane	0.0106	0.00057	mg/Kg wet	0.0113		93.9		70-130	0.848	25		
Chloroethane	0.0124	0.0023	mg/Kg wet	0.0113		110		70-130	2.68	25		
Chloroform	0.0127	0.0023	mg/Kg wet	0.0113		112		70-130	1.26	25		
Chloromethane	0.0110	0.0023	mg/Kg wet	0.0113		97.0		70-130	6.71	25	V-20	
2-Chlorotoluene	0.0109	0.0011	mg/Kg wet	0.0113		96.4		70-130	0.938	25		
4-Chlorotoluene	0.0111	0.0011	mg/Kg wet	0.0113		97.8		70-130	2.02	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.00764	0.0057	mg/Kg wet	0.0113		**67.4**	*	70-130	4.55	25	L-04, V-05	
1,2-Dibromoethane (EDB)	0.0119	0.00057	mg/Kg wet	0.0113		105		70-130	3.56	25		
Dibromomethane	0.0124	0.0011	mg/Kg wet	0.0113		109		70-130	2.04	25		
1,2-Dichlorobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.9		70-130	1.42	25		
1,3-Dichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		99.0		70-130	3.08	25		
1,4-Dichlorobenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.5		70-130	3.26	25		
trans-1,4-Dichloro-2-butene	0.00849	0.0023	mg/Kg wet	0.0113		74.9		70-130	6.76	25		
Dichlorodifluoromethane (Freon 12)	0.00828	0.0023	mg/Kg wet	0.0113		73.1		40-160	0.549	25		†
1,1-Dichloroethane	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130	1.90	25		
1,2-Dichloroethane	0.0114	0.0011	mg/Kg wet	0.0113		100		70-130	0.298	25		
1,1-Dichloroethylene	0.0137	0.0011	mg/Kg wet	0.0113		121		70-130	0.499	25		
cis-1,2-Dichloroethylene	0.0123	0.0011	mg/Kg wet	0.0113		108		70-130	1.96	25		
trans-1,2-Dichloroethylene	0.0118	0.0011	mg/Kg wet	0.0113		104		70-130	1.52	25		
1,2-Dichloropropane	0.0118	0.0011	mg/Kg wet	0.0113		104		70-130	2.04	25		
1,3-Dichloropropane	0.0118	0.00057	mg/Kg wet	0.0113		104		70-130	0.383	25		
2,2-Dichloropropane	0.0101	0.0011	mg/Kg wet	0.0113		89.4		70-130	4.11	25		
1,1-Dichloropropene	0.0121	0.0023	mg/Kg wet	0.0113		106		70-130	0.842	25		
cis-1,3-Dichloropropene	0.0101	0.00057	mg/Kg wet	0.0113		89.0		70-130	1.89	25		
trans-1,3-Dichloropropene	0.0105	0.00057	mg/Kg wet	0.0113		92.3		70-130	3.75	25		
Diethyl Ether	0.0118	0.0023	mg/Kg wet	0.0113		104		70-130	1.06	25		
Diisopropyl Ether (DIPE)	0.0104	0.00057	mg/Kg wet	0.0113		92.1		70-130	1.72	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B156191 - SW-846 5035											
LCS Dup (B156191-BSD1)				Prepared: 08/16/16 Analyzed: 08/18/16							
1,4-Dioxane	0.0668	0.057	mg/Kg wet	0.113		59.0	40-160	8.93	50	V-05	† ‡
Ethylbenzene	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130	0.878	25		
Hexachlorobutadiene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-160	2.38	25		
2-Hexanone (MBK)	0.0830	0.011	mg/Kg wet	0.113		73.2	70-160	6.67	25		†
Isopropylbenzene (Cumene)	0.0133	0.0011	mg/Kg wet	0.0113		118	70-130	2.52	25		
p-Isopropyltoluene (p-Cymene)	0.0109	0.0011	mg/Kg wet	0.0113		96.0	70-130	2.06	25		
Methyl tert-Butyl Ether (MTBE)	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130	14.4	25		
Methylene Chloride	0.0134	0.0057	mg/Kg wet	0.0113		118	40-160	2.14	25		†
4-Methyl-2-pentanone (MIBK)	0.0873	0.011	mg/Kg wet	0.113		77.1	70-160	2.75	25		†
Naphthalene	0.0102	0.0023	mg/Kg wet	0.0113		90.4	40-130	2.01	25		†
n-Propylbenzene	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130	0.516	25		
Styrene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130	1.68	25		
1,1,1,2-Tetrachloroethane	0.0105	0.0011	mg/Kg wet	0.0113		92.5	70-130	1.18	25		
1,1,2,2-Tetrachloroethane	0.0106	0.00057	mg/Kg wet	0.0113		93.2	70-130	0.748	25		
Tetrachloroethylene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130	1.87	25		
Tetrahydrofuran	0.00813	0.011	mg/Kg wet	0.0113		71.7	70-130	6.48	25	J	
Toluene	0.0122	0.0011	mg/Kg wet	0.0113		108	70-130	0.831	25		
1,2,3-Trichlorobenzene	0.0104	0.0057	mg/Kg wet	0.0113		91.7	70-130	2.76	25		
1,2,4-Trichlorobenzene	0.0103	0.0011	mg/Kg wet	0.0113		90.5	70-130	1.75	25		
1,3,5-Trichlorobenzene	0.00975	0.0011	mg/Kg wet	0.0113		86.0	70-130	1.50	25		
1,1,1-Trichloroethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	0.871	25		
1,1,2-Trichloroethane	0.0118	0.0011	mg/Kg wet	0.0113		104	70-130	0.0957	25		
Trichloroethylene	0.0125	0.0011	mg/Kg wet	0.0113		111	70-130	3.81	25		
Trichlorofluoromethane (Freon 11)	0.0118	0.0023	mg/Kg wet	0.0113		104	70-130	1.94	25		
1,2,3-Trichloropropane	0.0108	0.0023	mg/Kg wet	0.0113		95.1	70-130	1.36	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0139	0.0011	mg/Kg wet	0.0113		122	70-130	1.48	25		
1,2,4-Trimethylbenzene	0.0110	0.0011	mg/Kg wet	0.0113		97.4	70-130	1.53	25		
1,3,5-Trimethylbenzene	0.0106	0.0011	mg/Kg wet	0.0113		93.9	70-130	2.63	25		
Vinyl Chloride	0.00980	0.0023	mg/Kg wet	0.0113		86.5	40-130	0.921	25		†
m+p Xylene	0.0223	0.0023	mg/Kg wet	0.0227		98.3	70-130	2.81	25		
o-Xylene	0.0113	0.0011	mg/Kg wet	0.0113		99.9	70-130	2.47	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0294*		mg/Kg wet	0.0283		104	70-130				
Surrogate: Toluene-d8	*0.0291*		mg/Kg wet	0.0283		103	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0278*		mg/Kg wet	0.0283		98.2	70-130				
Batch B156193 - SW-846 5030B											
Blank (B156193-BLK1)				Prepared: 08/16/16 Analyzed: 08/17/16							
Acetone	ND	50	µg/L								
Acrylonitrile	ND	5.0	µg/L								
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L								
Benzene	ND	1.0	µg/L								
Bromobenzene	ND	1.0	µg/L								
Bromochloromethane	ND	1.0	µg/L								
Bromodichloromethane	ND	0.50	µg/L								
Bromoform	ND	2.0	µg/L								
Bromomethane	ND	2.0	µg/L								
2-Butanone (MEK)	ND	20	µg/L								
tert-Butyl Alcohol (TBA)	ND	20	µg/L								
n-Butylbenzene	ND	1.0	µg/L								
sec-Butylbenzene	ND	1.0	µg/L								
tert-Butylbenzene	ND	1.0	µg/L								

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156193 - SW-846 5030B										
Blank (B156193-BLK1)				Prepared: 08/16/16 Analyzed: 08/17/16						
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							L-04
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,3,5-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B156193 - SW-846 5030B												
Blank (B156193-BLK1)				Prepared: 08/16/16 Analyzed: 08/17/16								
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101		70-130				
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101		70-130				
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.3		70-130				
LCS (B156193-BS1)				Prepared: 08/16/16 Analyzed: 08/17/16								
Acetone	87.9	50	µg/L	100		87.9		70-160				†
Acrylonitrile	13.1	5.0	µg/L	10.0		**131**	*	70-130			L-02, V-20	
tert-Amyl Methyl Ether (TAME)	10.0	0.50	µg/L	10.0		100		70-130				
Benzene	10.2	1.0	µg/L	10.0		102		70-130				
Bromobenzene	10.1	1.0	µg/L	10.0		101		70-130				
Bromochloromethane	9.99	1.0	µg/L	10.0		99.9		70-130				
Bromodichloromethane	9.91	0.50	µg/L	10.0		99.1		70-130				
Bromoform	7.75	2.0	µg/L	10.0		77.5		70-130				
Bromomethane	5.35	2.0	µg/L	10.0		53.5		40-160				†
2-Butanone (MEK)	89.6	20	µg/L	100		89.6		40-160				†
tert-Butyl Alcohol (TBA)	110	20	µg/L	100		110		40-160				†
n-Butylbenzene	10.3	1.0	µg/L	10.0		103		70-130				
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130				
tert-Butylbenzene	9.77	1.0	µg/L	10.0		97.7		70-130				
tert-Butyl Ethyl Ether (TBEE)	9.65	0.50	µg/L	10.0		96.5		70-130				
Carbon Disulfide	8.76	4.0	µg/L	10.0		87.6		70-130				
Carbon Tetrachloride	8.70	5.0	µg/L	10.0		87.0		70-130				
Chlorobenzene	10.6	1.0	µg/L	10.0		106		70-130				
Chlorodibromomethane	9.54	0.50	µg/L	10.0		95.4		70-130				
Chloroethane	9.32	2.0	µg/L	10.0		93.2		70-130				
Chloroform	10.2	2.0	µg/L	10.0		102		70-130				
Chloromethane	4.95	2.0	µg/L	10.0		49.5		40-160				†
2-Chlorotoluene	9.59	1.0	µg/L	10.0		95.9		70-130				
4-Chlorotoluene	9.97	1.0	µg/L	10.0		99.7		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.95	5.0	µg/L	10.0		89.5		70-130				
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113		70-130				
Dibromomethane	10.4	1.0	µg/L	10.0		104		70-130				
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130				
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130				
trans-1,4-Dichloro-2-butene	9.12	2.0	µg/L	10.0		91.2		70-130				
Dichlorodifluoromethane (Freon 12)	3.70	2.0	µg/L	10.0		**37.0**	*	40-160			L-04	†
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100		70-130				
1,2-Dichloroethane	9.43	1.0	µg/L	10.0		94.3		70-130				
1,1-Dichloroethylene	10.6	1.0	µg/L	10.0		106		70-130				
cis-1,2-Dichloroethylene	9.78	1.0	µg/L	10.0		97.8		70-130				
trans-1,2-Dichloroethylene	9.32	1.0	µg/L	10.0		93.2		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156193 - SW-846 5030B										
LCS (B156193-BS1)				Prepared: 08/16/16 Analyzed: 08/17/16						
1,2-Dichloropropane	9.44	1.0	µg/L	10.0		94.4	70-130			
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103	70-130			
2,2-Dichloropropane	7.84	1.0	µg/L	10.0		78.4	40-130			†
1,1-Dichloropropene	9.66	2.0	µg/L	10.0		96.6	70-130			
cis-1,3-Dichloropropene	8.81	0.50	µg/L	10.0		88.1	70-130			
trans-1,3-Dichloropropene	9.06	0.50	µg/L	10.0		90.6	70-130			
Diethyl Ether	10.6	2.0	µg/L	10.0		106	70-130			
Diisopropyl Ether (DIPE)	8.46	0.50	µg/L	10.0		84.6	70-130			
1,4-Dioxane	74.8	50	µg/L	100		74.8	40-130			†
Ethylbenzene	9.93	1.0	µg/L	10.0		99.3	70-130			
Hexachlorobutadiene	10.6	0.60	µg/L	10.0		106	70-130			
2-Hexanone (MBK)	84.3	10	µg/L	100		84.3	70-160			†
Isopropylbenzene (Cumene)	11.8	1.0	µg/L	10.0		118	70-130			
p-Isopropyltoluene (p-Cymene)	9.91	1.0	µg/L	10.0		99.1	70-130			
Methyl tert-Butyl Ether (MTBE)	9.89	1.0	µg/L	10.0		98.9	70-130			
Methylene Chloride	11.8	5.0	µg/L	10.0		118	70-130			
4-Methyl-2-pentanone (MIBK)	84.8	10	µg/L	100		84.8	70-160			†
Naphthalene	11.7	2.0	µg/L	10.0		117	40-130			†
n-Propylbenzene	9.80	1.0	µg/L	10.0		98.0	70-130			
Styrene	10.1	1.0	µg/L	10.0		101	70-130			
1,1,1,2-Tetrachloroethane	9.34	1.0	µg/L	10.0		93.4	70-130			
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106	70-130			
Tetrachloroethylene	9.66	1.0	µg/L	10.0		96.6	70-130			
Tetrahydrofuran	8.69	10	µg/L	10.0		86.9	70-130			J
Toluene	9.98	1.0	µg/L	10.0		99.8	70-130			
1,2,3-Trichlorobenzene	11.3	5.0	µg/L	10.0		113	70-130			
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130			
1,3,5-Trichlorobenzene	9.75	1.0	µg/L	10.0		97.5	70-130			
1,1,1-Trichloroethane	9.60	1.0	µg/L	10.0		96.0	70-130			
1,1,2-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130			
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130			
Trichlorofluoromethane (Freon 11)	9.17	2.0	µg/L	10.0		91.7	70-130			
1,2,3-Trichloropropane	10.5	2.0	µg/L	10.0		105	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.37	1.0	µg/L	10.0		93.7	70-130			
1,2,4-Trimethylbenzene	9.77	1.0	µg/L	10.0		97.7	70-130			
1,3,5-Trimethylbenzene	9.68	1.0	µg/L	10.0		96.8	70-130			
Vinyl Chloride	5.98	2.0	µg/L	10.0		59.8	40-160			†
m+p Xylene	19.7	2.0	µg/L	20.0		98.4	70-130			
o-Xylene	9.89	1.0	µg/L	10.0		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.1*		µg/L	25.0		96.6	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B156193 - SW-846 5030B												
LCS Dup (B156193-BSD1)				Prepared: 08/16/16 Analyzed: 08/17/16								
Acetone	110	50	µg/L	100		110		70-160	22.2	25		†
Acrylonitrile	14.0	5.0	µg/L	10.0		**140**	*	70-130	6.86	25	L-02, V-20	
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102		70-130	1.68	25		
Benzene	10.3	1.0	µg/L	10.0		103		70-130	1.47	25		
Bromobenzene	10.2	1.0	µg/L	10.0		102		70-130	1.48	25		
Bromochloromethane	10.1	1.0	µg/L	10.0		101		70-130	0.996	25		
Bromodichloromethane	9.82	0.50	µg/L	10.0		98.2		70-130	0.912	25		
Bromoform	8.33	2.0	µg/L	10.0		83.3		70-130	7.21	25		
Bromomethane	6.39	2.0	µg/L	10.0		63.9		40-160	17.7	25		†
2-Butanone (MEK)	105	20	µg/L	100		105		40-160	15.8	25		†
tert-Butyl Alcohol (TBA)	138	20	µg/L	100		138		40-160	22.6	25		†
n-Butylbenzene	10.4	1.0	µg/L	10.0		104		70-130	1.16	25		
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130	0.792	25		
tert-Butylbenzene	9.83	1.0	µg/L	10.0		98.3		70-130	0.612	25		
tert-Butyl Ethyl Ether (TBEE)	9.98	0.50	µg/L	10.0		99.8		70-130	3.36	25		
Carbon Disulfide	8.48	4.0	µg/L	10.0		84.8		70-130	3.25	25		
Carbon Tetrachloride	8.91	5.0	µg/L	10.0		89.1		70-130	2.39	25		
Chlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	0.755	25		
Chlorodibromomethane	9.87	0.50	µg/L	10.0		98.7		70-130	3.40	25		
Chloroethane	9.53	2.0	µg/L	10.0		95.3		70-130	2.23	25		
Chloroform	10.2	2.0	µg/L	10.0		102		70-130	0.685	25		
Chloromethane	5.14	2.0	µg/L	10.0		51.4		40-160	3.77	25		†
2-Chlorotoluene	9.48	1.0	µg/L	10.0		94.8		70-130	1.15	25		
4-Chlorotoluene	9.79	1.0	µg/L	10.0		97.9		70-130	1.82	25		
1,2-Dibromo-3-chloropropane (DBCP)	9.32	5.0	µg/L	10.0		93.2		70-130	4.05	25		
1,2-Dibromoethane (EDB)	11.3	0.50	µg/L	10.0		113		70-130	0.442	25		
Dibromomethane	10.9	1.0	µg/L	10.0		109		70-130	4.69	25		
1,2-Dichlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	2.01	25		
1,3-Dichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130	0.293	25		
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130	0.297	25		
trans-1,4-Dichloro-2-butene	9.55	2.0	µg/L	10.0		95.5		70-130	4.61	25		
Dichlorodifluoromethane (Freon 12)	3.89	2.0	µg/L	10.0		**38.9**	*	40-160	5.01	25	L-04	†
1,1-Dichloroethane	10.0	1.0	µg/L	10.0		100		70-130	0.100	25		
1,2-Dichloroethane	9.87	1.0	µg/L	10.0		98.7		70-130	4.56	25		
1,1-Dichloroethylene	10.7	1.0	µg/L	10.0		107		70-130	0.842	25		
cis-1,2-Dichloroethylene	9.68	1.0	µg/L	10.0		96.8		70-130	1.03	25		
trans-1,2-Dichloroethylene	9.53	1.0	µg/L	10.0		95.3		70-130	2.23	25		
1,2-Dichloropropane	9.33	1.0	µg/L	10.0		93.3		70-130	1.17	25		
1,3-Dichloropropane	10.6	0.50	µg/L	10.0		106		70-130	2.69	25		
2,2-Dichloropropane	7.76	1.0	µg/L	10.0		77.6		40-130	1.03	25		†
1,1-Dichloropropene	9.54	2.0	µg/L	10.0		95.4		70-130	1.25	25		
cis-1,3-Dichloropropene	8.75	0.50	µg/L	10.0		87.5		70-130	0.683	25		
trans-1,3-Dichloropropene	9.54	0.50	µg/L	10.0		95.4		70-130	5.16	25		
Diethyl Ether	11.0	2.0	µg/L	10.0		110		70-130	3.60	25		
Diisopropyl Ether (DIPE)	8.58	0.50	µg/L	10.0		85.8		70-130	1.41	25		
1,4-Dioxane	90.0	50	µg/L	100		90.0		40-130	18.4	50		† ‡
Ethylbenzene	9.86	1.0	µg/L	10.0		98.6		70-130	0.707	25		
Hexachlorobutadiene	10.9	0.60	µg/L	10.0		109		70-130	2.71	25		
2-Hexanone (MBK)	92.4	10	µg/L	100		92.4		70-160	9.21	25		†
Isopropylbenzene (Cumene)	11.7	1.0	µg/L	10.0		117		70-130	0.935	25		
p-Isopropyltoluene (p-Cymene)	9.87	1.0	µg/L	10.0		98.7		70-130	0.404	25		
Methyl tert-Butyl Ether (MTBE)	10.6	1.0	µg/L	10.0		106		70-130	6.55	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B156193 - SW-846 5030B											
LCS Dup (B156193-BSD1)				Prepared: 08/16/16 Analyzed: 08/17/16							
Methylene Chloride	12.2	5.0	µg/L	10.0		122	70-130	3.92	25		
4-Methyl-2-pentanone (MIBK)	91.7	10	µg/L	100		91.7	70-160	7.86	25		†
Naphthalene	12.9	2.0	µg/L	10.0		129	40-130	9.90	25		†
n-Propylbenzene	9.85	1.0	µg/L	10.0		98.5	70-130	0.509	25		
Styrene	10.2	1.0	µg/L	10.0		102	70-130	0.788	25		
1,1,1,2-Tetrachloroethane	9.43	1.0	µg/L	10.0		94.3	70-130	0.959	25		
1,1,2,2-Tetrachloroethane	11.3	0.50	µg/L	10.0		113	70-130	5.84	25		
Tetrachloroethylene	9.69	1.0	µg/L	10.0		96.9	70-130	0.310	25		
Tetrahydrofuran	9.79	10	µg/L	10.0		97.9	70-130	11.9	25	J	
Toluene	9.87	1.0	µg/L	10.0		98.7	70-130	1.11	25		
1,2,3-Trichlorobenzene	12.4	5.0	µg/L	10.0		124	70-130	9.38	25		
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	1.88	25		
1,3,5-Trichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130	2.73	25		
1,1,1-Trichloroethane	9.50	1.0	µg/L	10.0		95.0	70-130	1.05	25		
1,1,2-Trichloroethane	10.9	1.0	µg/L	10.0		109	70-130	1.67	25		
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	0.0954	25		
Trichlorofluoromethane (Freon 11)	9.37	2.0	µg/L	10.0		93.7	70-130	2.16	25		
1,2,3-Trichloropropane	11.2	2.0	µg/L	10.0		112	70-130	7.01	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.98	1.0	µg/L	10.0		99.8	70-130	6.30	25		
1,2,4-Trimethylbenzene	9.78	1.0	µg/L	10.0		97.8	70-130	0.102	25		
1,3,5-Trimethylbenzene	9.72	1.0	µg/L	10.0		97.2	70-130	0.412	25		
Vinyl Chloride	5.81	2.0	µg/L	10.0		58.1	40-160	2.88	25		†
m+p Xylene	19.4	2.0	µg/L	20.0		96.8	70-130	1.64	25		
o-Xylene	9.80	1.0	µg/L	10.0		98.0	70-130	0.914	25		
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		102	70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		99.9	70-130				
Batch B156460 - SW-846 5035											
Blank (B156460-BLK1)				Prepared: 08/18/16 Analyzed: 08/19/16							
1,2,4-Trimethylbenzene	ND	0.0010	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0253*		mg/Kg wet	0.0250		101	70-130				
Surrogate: Toluene-d8	*0.0252*		mg/Kg wet	0.0250		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0246*		mg/Kg wet	0.0250		98.2	70-130				
LCS (B156460-BS1)				Prepared: 08/18/16 Analyzed: 08/19/16							
1,2,4-Trimethylbenzene	0.0114	0.0011	mg/Kg wet	0.0113		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0293*		mg/Kg wet	0.0283		104	70-130				
Surrogate: Toluene-d8	*0.0288*		mg/Kg wet	0.0283		102	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0285*		mg/Kg wet	0.0283		101	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156460 - SW-846 5035										
LCS Dup (B156460-BSD1)				Prepared: 08/18/16 Analyzed: 08/19/16						
1,2,4-Trimethylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.3	70-130	5.11	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0289*		mg/Kg wet	0.0283		102	70-130			
Surrogate: Toluene-d8	*0.0287*		mg/Kg wet	0.0283		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0279*		mg/Kg wet	0.0283		98.6	70-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156171 - MA VPH										
Blank (B156171-BLK1)				Prepared & Analyzed: 08/16/16						
Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Butylcyclohexane	ND	1.0	µg/L							
Decane	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
2-Methylpentane	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Nonane	ND	1.0	µg/L							
Pentane	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
2,2,4-Trimethylpentane	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	*34.6*		µg/L	40.0		86.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*28.2*		µg/L	40.0		70.4	70-130			
LCS (B156171-BS1)				Prepared & Analyzed: 08/16/16						
Benzene	100	1.0	µg/L	100		100	70-130			
Butylcyclohexane	93.6	1.0	µg/L	100		93.6	70-130			
Decane	106	1.0	µg/L	100		106	70-130			
Ethylbenzene	99.1	1.0	µg/L	100		99.1	70-130			
Methyl tert-Butyl Ether (MTBE)	111	1.0	µg/L	100		111	70-130			
2-Methylpentane	106	1.0	µg/L	100		106	70-130			
Naphthalene	89.0	5.0	µg/L	100		89.0	70-130			
Nonane	101	1.0	µg/L	100		101	70-130			
Pentane	83.5	1.0	µg/L	100		83.5	70-130			
Toluene	101	1.0	µg/L	100		101	70-130			
1,2,4-Trimethylbenzene	91.0	1.0	µg/L	100		91.0	70-130			
2,2,4-Trimethylpentane	96.3	1.0	µg/L	100		96.3	70-130			
m+p Xylene	192	2.0	µg/L	200		95.9	70-130			
o-Xylene	95.9	1.0	µg/L	100		95.9	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*36.7*		µg/L	40.0		91.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*28.6*		µg/L	40.0		71.6	70-130			
LCS Dup (B156171-BSD1)				Prepared & Analyzed: 08/16/16						
Benzene	94.4	1.0	µg/L	100		94.4	70-130	5.87	25	
Butylcyclohexane	92.6	1.0	µg/L	100		92.6	70-130	1.06	25	
Decane	107	1.0	µg/L	100		107	70-130	0.652	25	
Ethylbenzene	96.2	1.0	µg/L	100		96.2	70-130	2.95	25	
Methyl tert-Butyl Ether (MTBE)	111	1.0	µg/L	100		111	70-130	0.312	25	
2-Methylpentane	103	1.0	µg/L	100		103	70-130	2.34	25	
Naphthalene	92.8	5.0	µg/L	100		92.8	70-130	4.15	25	
Nonane	99.1	1.0	µg/L	100		99.1	70-130	1.59	25	
Pentane	81.2	1.0	µg/L	100		81.2	70-130	2.77	25	
Toluene	98.6	1.0	µg/L	100		98.6	70-130	2.62	25	
1,2,4-Trimethylbenzene	87.1	1.0	µg/L	100		87.1	70-130	4.43	25	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156171 - MA VPH										
LCS Dup (B156171-BSD1)				Prepared & Analyzed: 08/16/16						
2,2,4-Trimethylpentane	95.8	1.0	µg/L	100		95.8	70-130	0.542	25	
m+p Xylene	185	2.0	µg/L	200		92.4	70-130	3.77	25	
o-Xylene	92.0	1.0	µg/L	100		92.0	70-130	4.13	25	
Surrogate: 2,5-Dibromotoluene (FID)	*38.0*		µg/L	40.0		95.1	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*31.3*		µg/L	40.0		78.2	70-130			
Batch B156172 - MA VPH										
Blank (B156172-BLK1)				Prepared & Analyzed: 08/16/16						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Butylcyclohexane	ND	0.050	mg/Kg wet							
Decane	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
2-Methylpentane	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.50	mg/Kg wet							
Nonane	ND	0.050	mg/Kg wet							
Pentane	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
2,2,4-Trimethylpentane	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*0.0411*		mg/Kg wet	0.0400		103	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*0.0395*		mg/Kg wet	0.0400		98.9	70-130			
LCS (B156172-BS1)				Prepared & Analyzed: 08/16/16						
Benzene	0.115	0.0010	mg/Kg wet	0.100		115	70-130			
Butylcyclohexane	0.101	0.0010	mg/Kg wet	0.100		101	70-130			
Decane	0.124	0.0010	mg/Kg wet	0.100		124	70-130			
Ethylbenzene	0.102	0.0010	mg/Kg wet	0.100		102	70-130			
Methyl tert-Butyl Ether (MTBE)	0.115	0.0010	mg/Kg wet	0.100		115	70-130			
2-Methylpentane	0.102	0.0010	mg/Kg wet	0.100		102	70-130			
Naphthalene	0.0945	0.010	mg/Kg wet	0.100		94.5	70-130			
Nonane	0.107	0.0010	mg/Kg wet	0.100		107	30-130			
Pentane	0.109	0.0010	mg/Kg wet	0.100		109	70-130			
Toluene	0.111	0.0010	mg/Kg wet	0.100		111	70-130			
1,2,4-Trimethylbenzene	0.101	0.0010	mg/Kg wet	0.100		101	70-130			
2,2,4-Trimethylpentane	0.110	0.0010	mg/Kg wet	0.100		110	70-130			
m+p Xylene	0.206	0.0020	mg/Kg wet	0.200		103	70-130			
o-Xylene	0.109	0.0010	mg/Kg wet	0.100		109	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*0.0416*		mg/Kg wet	0.0400		104	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*0.0413*		mg/Kg wet	0.0400		103	70-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156172 - MA VPH										
LCS Dup (B156172-BSD1)				Prepared & Analyzed: 08/16/16						
Benzene	0.115	0.0010	mg/Kg wet	0.100		115	70-130	0.0576	25	
Butylcyclohexane	0.102	0.0010	mg/Kg wet	0.100		102	70-130	1.26	25	
Decane	0.127	0.0010	mg/Kg wet	0.100		127	70-130	2.57	25	
Ethylbenzene	0.101	0.0010	mg/Kg wet	0.100		101	70-130	0.582	25	
Methyl tert-Butyl Ether (MTBE)	0.116	0.0010	mg/Kg wet	0.100		116	70-130	1.20	25	
2-Methylpentane	0.104	0.0010	mg/Kg wet	0.100		104	70-130	2.03	25	
Naphthalene	0.101	0.010	mg/Kg wet	0.100		101	70-130	6.60	25	
Nonane	0.111	0.0010	mg/Kg wet	0.100		111	30-130	3.44	25	
Pentane	0.111	0.0010	mg/Kg wet	0.100		111	70-130	0.994	25	
Toluene	0.111	0.0010	mg/Kg wet	0.100		111	70-130	0.0494	25	
1,2,4-Trimethylbenzene	0.100	0.0010	mg/Kg wet	0.100		100	70-130	0.688	25	
2,2,4-Trimethylpentane	0.108	0.0010	mg/Kg wet	0.100		108	70-130	1.48	25	
m+p Xylene	0.205	0.0020	mg/Kg wet	0.200		103	70-130	0.636	25	
o-Xylene	0.109	0.0010	mg/Kg wet	0.100		109	70-130	0.460	25	
Surrogate: 2,5-Dibromotoluene (FID)	*0.0410*		mg/Kg wet	0.0400		103	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*0.0410*		mg/Kg wet	0.0400		102	70-130			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156107 - % Solids										
Duplicate (B156107-DUP5)	**Source: 16H0673-01**			Prepared: 08/15/16 Analyzed: 08/16/16						
% Solids	86.6		% Wt		88.0			1.60	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
RL-05	Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,ME,NH-P
C5-C8 Aliphatics	CT,NC,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C10 Aromatics	CT,NC,ME,NH-P
Benzene	CT,NC,ME,NH-P
Ethylbenzene	CT,NC,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,ME,NH-P
Naphthalene	CT,NC,ME,NH-P
Toluene	CT,NC,ME,NH-P
m+p Xylene	CT,NC,ME,NH-P
o-Xylene	CT,NC,ME,NH-P
MADEP-VPH-04-1.1 in Water	
Unadjusted C5-C8 Aliphatics	CT,NC,ME,NH-P
C5-C8 Aliphatics	CT,NC,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C10 Aromatics	CT,NC,ME,NH-P
Benzene	CT,NC,ME,NH-P
Ethylbenzene	CT,NC,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,ME,NH-P
Naphthalene	CT,NC,ME,NH-P
Toluene	CT,NC,ME,NH-P
m+p Xylene	CT,NC,ME,NH-P
o-Xylene	CT,NC,ME,NH-P
SW-846 8260B in Soil	
Acetone	NC
Acrylonitrile	NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8260B in Water	
Acetone	NC
Acrylonitrile	NC
tert-Amyl Methyl Ether (TAME)	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	NC
sec-Butylbenzene	NC
tert-Butylbenzene	NC
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
2-Chlorotoluene	NC
4-Chlorotoluene	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
trans-1,4-Dichloro-2-butene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,3-Dichloropropane	NC
2,2-Dichloropropane	NC
1,1-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
n-Propylbenzene	NC
Styrene	NC
1,1,1,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrahydrofuran	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,3,5-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,2,3-Trichloropropane	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,2,4-Trimethylbenzene	NC
1,3,5-Trimethylbenzene	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

CHAIN OF CUSTODY RECORD

1604673

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

Company Name: Terracon
Address: 2401 Brentwood Road #107
Raleigh, NC 27604
Attention: Justin Fabrizian
Project Location: ~~Raleigh, NC~~ Employment Security Commission
Sampled By: CMP/DWM

Telephone: 919-436-2964
Project #: ~~70159654~~ comp 70167318
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ○ WEBSITE
Fax #:
Email: justin.fabrizian@terracon.com
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection ~~Beginning~~ Date/~~Time~~	Collection ~~Ending~~ Date/~~Time~~	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	VOCs 8260 (water)	MADEP VPH (water)	VOCs 8260 (soil)	MADEP VPH (soil)
								3	3					
								H	H					
								V	V					
01	SB01 (16-18)	8/11/16	17:30		✓	S							✓	✓
02	TW-01	↓	17:00		↓	GW					✓	✓		
03	TW-02		18:05			GW					✓	✓		
04	TW-03		15:10			GW					✓	✓		
05	TW-04		15:50			GW					✓	✓		
06	TW-05	↓	18:40			GW					✓	✓		
07	SB-01 (10-12)	↓	17:40		↓	S							✓	✓
08	DW-1	8/12/16	~~13~~30		✓	GW					✓	✓		
09	MW-1	↓	14:00		↓	GW					✓	✓		
10	SW-2	↓	12:45		↓	GW					✓	✓		

Analysis Requested

VOCs 8260 Only

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Cmp PA	8/12/16 15:45
Received by: (signature)	Date/Time:
Brent Padd	8/12/16 1545
Relinquished by: (signature)	Date/Time:
Brent Padd	8/12/16 1730
Received by: (signature) 5.4°C	Date/Time:
Kelsey Hurst	8/13/16 1001

Turnaround ††
- ◉ 5-Day
- ○ 5-7-Day
- ○ 10-Day
- **RUSH** †
- ○ †24-Hr r †48-Hr
- ○ †72-Hr r †4-Day

† Requires Lab Approval

Detection Limit Requirements
North Carolina
- ◉ 2L
- ○ GWPC
- ○ SWSL
- ○ OTHER

Program Information
- ○ DSCA ○ IHSB Orphaned Landfill
- ○ SWS Landfill ○ UST ○ REC
- ○ Other: _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Dissolved Metals
○ Field Filtered
○ Lab to Filter

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								H	H			
								V	V			
11	SW-A	8/12/16	11:25		✓	GW		✓	✓			
12	SW-B	↓	10:10		↓	GW		✓	✓			
13	SW-C	↓	12:00		↓	GW		✓	✓			

Analysis Requested

Dissolved Metals
O Field Filtered
O Lab to Filter

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Mike Trust	8/13/16 1001

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O GWPC
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O DSCA O IHSB Orphaned Landfill
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con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Terracon **RECEIVED BY:** RF **DATE:** 8/13/16

1) **Was the chain(s) of custody relinquished and signed?** **Yes** X **No** ____ **No COC Incl.**

2) **Does the chain agree with the samples?** **Yes** X **No** ____
If not, explain:

3) **Are all the samples in good condition?** **Yes** X **No** ____
If not, explain:

4) **How were the samples received:**
On Ice X Direct from Sampling ____ Ambient ____ In Cooler(s) X

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** X **No** ____ **N/A** ____

Temperature °C by Temp blank ____ Temperature °C by Temp gun 5.4, 3.8

5) **Are there Dissolved samples for the lab to filter?** **Yes** ____ **No** X
Who was notified ____ Date ____ Time ____

6) **Are there any RUSH or SHORT HOLDING TIME samples?** **Yes** ____ **No** X
Who was notified ____ Date ____ Time ____

7) **Location where samples are stored:** ✓

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) **Do all samples have the proper Acid pH:** **Yes** ____ **No** ____ **N/A** X

9) **Do all samples have the proper Base pH:** **Yes** ____ **No** ____ **N/A** X

10) **Was the PC notified of any discrepancies with the CoC vs the samples:** **Yes** ____ **N/A** X

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	2
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	59	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl 51 # Methanol 4
Bisulfate 4 # DI Water ____
Thiosulfate ____ Unpreserved ____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	N/A	
19) Trip blanks provided if applicable.	N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** **Date/Time:**

RLF 8/13/16 1001